

PUBLIC HEALTH REPORTS

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NO. 49

STATE AND INSULAR HEALTH AUTHORITIES, 1931 DIRECTORY, WITH DATA AS TO APPROPRIATIONS AND PUBLICATIONS

Directories of the State and insular health authorities of the United States for each year from 1912 to 1930 have been published in the Public Health Reports ¹ for the information of health officers and others interested in public-health activities. The present volume (1931), like those formerly issued, has been compiled from information furnished by the respective State and insular health officers, and includes data as to appropriations and publications.

Where an officer has been reported to be a "whole-time" health officer, that fact is indicated by an asterisk (*). For this purpose a "whole-time" health officer is defined as "one who does not engage in the practice of medicine or in any other business, but devotes all of his time to official duties."

ALABAMA

Board of censors of the medical association of the State of Alabama, acting as a committee of public health:

- B. M. Miller, governor, *ex officio* chairman. Montgomery.
- W. D. Partlow, M. D., chairman. Tuscaloosa.
- R. S. Hill, M. D., Montgomery.
- Fred W. Wilkerson, M. D., Montgomery.
- D. T. McCall, M. D., Mobile.
- W. W. Harper, M. D., Selma.
- J. S. McLester, M. D., Birmingham.
- M. Y. Dabney, M. D., Birmingham.
- A. L. Harlan, M. D., Alexander City.
- S. A. Gordon, M. D., Marion.
- J. M. Watkins, M. D., Troy.

Executive health officer:

- *J. N. Baker, M. D., State Health Officer, Montgomery.

Administrative assistant:

- *D. L. Cannon, M. D., Montgomery.

Secretary to State health officer.

- *Bessie Tucker, Montgomery.

Financial secretary:

- *Adna Eley Aldredge, Montgomery.

Registrar of vital statistics:

- *W. T. Fales, Montgomery.
- *Ethel Hawley, chief clerk, Montgomery.

Laboratories of the State Board of Health:

General director—

- *L. C. Havens, M. D., Montgomery.

Assistant director—

- *Catherine R. Mayfield, Montgomery.

Anniston branch—

- *Katie Mae Wilson Field, Anniston.

Birmingham branch—

- *George A. Denison, M. D., Birmingham.

Mobile branch—

- *C. H. Walte, Mobile.

Tennessee Valley—

- *A. J. Perollo, M. D., Decatur.

Tuscaloosa branch—

- *Lucile Watt, Tuscaloosa.

Selma branch—

- *Cooper Brougher, Selma.

Dothan branch—

- *Nellie K. Whitfield, Dothan.

Huntsville branch—

- *Agnes Chandler, Huntsville.

¹ Reprints Nos. 83, 123, 160, 286, 344, 405, 488, 544, 605, 706, 775, 871, 949, 1043, 1106, 1188, 1254, 1334, and 1425, from the Public Health Reports.

State sanitary engineer:

*G. H. Hazlehurst, C. E., M. C. E., Montgomery.

Assistant sanitary engineers:

*H. G. Menke, B. C. E., Montgomery.

*C. C. Kiker, B. C. E., Montgomery.

*T. H. Milford, B. C. E., Montgomery.

Communicable disease control:

*D. G. Gill, M. D., D. P. H., director, Montgomery.

*W. E. Wilson, M. D., C. P. H., assistant director, Montgomery.

*S. B. McPheeters, M. D., chest clinician, Montgomery.

*T. D. Rivers, M. D., chest clinician, Montgomery.

*P. W. Anston, M. D., chest clinician, Montgomery.

*C. B. Webster, D. D. S., dentist, Montgomery.

*M. L. Rutland, D. D. S., dentist, Montgomery.

County organization:**Divisional director—**

*B. F. Austin, M. D., Montgomery.

Director field training station:

*A. H. Graham, M. D., D. P. H., Opelika.

Public health nursing:

*Jessie L. Marriner, R. N., director, Montgomery.

*Frances C. Montgomery, R. N., assistant director, Montgomery.

*Annie Jewel Brown, R. N., assistant director, Montgomery.

*Margaret Murphy, R. N., assistant director, Montgomery.

*Catherine Corley, R. N., assistant director, Montgomery.

Inspection:

*C. A. Abele, Ch. E., director, Montgomery.

*H. J. Thrasher, assistant director, Huntsville.

*U. D. Franklin, dairy inspector, Huntsville.

*F. H. Downs, dairy inspector, Montgomery.

*J. W. Garrett, dairy inspector, Selma.

*H. W. Caldwell, D. V. M., dairy inspector, Montgomery.

*D. Cook, D. V. M., dairy inspector, Montgomery.

*C. G. Allen, dairy inspector, Montgomery.

*C. H. South, district inspector, oyster control, Mobile.

*B. F. Crane, district inspector, Birmingham.

*B. S. Coon, district inspector, Montgomery.

Appropriation for fiscal year ending September 30, 1931:

Central administration.....	\$539, 383
County health work, per county.....	2, 500
Inspection of dairy plants.....	12, 000

ALASKA**Board of health:**

Harry C. De Vigne, M. D., commissioner of health, Juneau.

Executive health officer:

Harry C. De Vigne, M. D., Commissioner of health, Juneau.

Assistant commissioners of health:

F. J. O'Hara, M. D., Nome.

J. A. Sutherland, M. D., Fairbanks.

Appropriation for 1931-32, \$19,200.

ARIZONA**State board of health:**

George W. P. Hunt, governor, president, Phoenix.

K. Berry Peterson, attorney general, vice president, Phoenix.

Charles W. Sult, M. D., secretary, Phoenix.

Executive health officer:

Charles W. Sult, M. D., State superintendent of health, Phoenix.

Executive secretary:

*Gertrude Bryan Leeper, Phoenix.

State registrar of vital statistics:

Charles W. Sult, M. D., Phoenix.

Statistician:

*Mary Ellen Young, Phoenix.

State Laboratory:

*Jane H. Rider, director, Tucson.

*Marion E. Stroud, bacteriologist, Tucson.

Appropriations for the years July 1, 1931, to June 30, 1933:

	First year	Second year
State board of health—		
Salaries.....	\$12, 800	\$12, 800
Operation.....	3, 475	3, 650
Travel.....	1, 650	1, 650
Capital.....	200	200
Total.....	18, 125	18, 300
State laboratory—		
Salaries.....	8, 940	8, 940
Operation.....	1, 300	1, 350
Travel.....	900	900
Capital investment.....	1, 000	500
Total.....	12, 140	11, 690

ARKANSAS**Board of health:**

W. P. Parks, M. D., president, Hot Springs.

R. M. Eubanks, M. D., Little Rock.

E. L. Watson, M. D., Newport.

O. L. Williamson, M. D., Marianna.

A. S. Gregg, M. D., Fayetteville.

L. F. Duncan, M. D., Waldron.

F. O. Mahony, M. D., El Dorado.

Executive health officer:

*C. W. Garrison, M. D., State health officer, Little Rock.

Bureau of vital statistics:

*Mrs. Mary Ellis Brown, statistician, Little Rock.

Hygienic laboratory:

*H. V. Stewart, associate director, Little Rock.

Bureau of sanitation and malaria control:

*M. Z. Bair, chief sanitary engineer, Little Rock.

Bureau of child hygiene:

*C. W. Garrison, M. D., director, Little Rock.

County health units:

*Gordon Hastings, M. D., director, Little Rock.

Appropriations for biennial period ending June 30, 1933:

Executive department, salaries and miscellaneous..... \$32,000
Bureau of vital statistics..... 40,800
Payment of local registrars..... 31,000
Malaria control..... 9,760
Bureau of sanitation..... 10,600
Bureau of child hygiene..... 4,000
Hygienic laboratory..... 25,440
County Health units (to be derived from premiums on life-insurance policies) .. 170,000

CALIFORNIA**Board of public health:**

George E. Ebricht, M. D., president, San Francisco.

Fred F. Gundrum, M. D., vice president, Sacramento.

Giles S. Porter, M. D., director of public health, Sacramento.

A. J. Scott, Jr., M. D., Los Angeles.

Edward F. Glaser, M. D., San Francisco.

Robert A. Peers, M. D., Colfax.

Department of public health:

*Giles S. Porter, M. D., director of public health, Sacramento.

District health officer:

*Gavin Telfer, M. D., southern division.

Chief sanitary inspector:

*Edward T. Ross, Sacramento.

Chief cannery inspector:

*Milton P. Duffy, San Francisco.

Vital statistics:

*Mrs. Marie B. Stringer, registrar, Sacramento.

Bureau of registration nurses:

*Sarah G. White, R. N., chief, Sacramento.

Bureau of tuberculosis:

*Edythe L. M. Tate-Thompson, chief, Sacramento.

Bureau of food and drugs:

*C. H. McCharles, chief, Berkeley.

Bacteriological laboratory:

*W. H. Kellogg, M. D., chief, Berkeley.

Bureau of sanitary engineering:

*C. G. Gillespie, C. E., chief, Berkeley.

Bureau of child hygiene:

*Ellen S. Stadtmuller, M. D., chief, San Francisco.

Malaria control:

*Edward Stuart, C. E., in charge.

Appropriations, available July 1, 1931, for biennial period ending June 30, 1933 (eighty-third and eighty-fourth fiscal years):

Administration—

For support, department of public health..... \$639,010

Aid to mosquito abatement districts..... 10,000

Division of cannery inspection—

For support..... 247,030
(Payable from cannery inspection funds.)

Appropriations, available July 1, 1931—Con.**Nurses' registration bureau—**

For support..... \$40,000

Tuberculosis bureau—

Allotment for support, \$47,900

included in item "for support, department of public health."

For subsidies..... 740,000

Orthopedics survey for aid to physically defective children... 10,000

Total..... 1,686,940

Other sources of revenue:

Fees for registration of nurses, \$10 each.

(Fees for California graduate nurses, \$5 only.)

Renewal of registration certificates, \$1 per year.

Licensing of cold-storage warehouses, rated according to capacity.

Fines for violation of pure food and drugs act.

Fees for licenses, \$10 each, and contributions, for credit to division of cannery inspection.

Fees for certified copies of records.

Publications issued by health department:

Biennial report.

Weekly bulletin.

COLORADO**Board of health:**

Sherman Williams, M. D., president, Denver.

S. R. McKelvey, M. D., secretary, Denver.

N. M. Burnett, M. D., Lamar.

Ben Beshoar, M. D., Trinidad.

Paul J. Connor, M. D., Denver.

G. W. Bumpus, D. O., Denver.

C. A. Davlin, M. D., Alamosa.

Ura O. Musick, Colorado Springs.

William P. Gasser, M. D., Loveland.

Executive health officer:

*S. R. McKelvey, M. D., secretary, State board of health, Denver.

Bacteriologist:

William C. Mitchell, M. D., Denver.

Epidemiologist:

Merrill C. Jobe, M. D., Denver.

State food and drug commissioner:

*S. H. Loeb, Denver.

Division of social hygiene:

*S. R. McKelvey, M. D., director, Denver.

Division of sanitary engineering:

*Benjamin V. Howe, director, Denver.

Division of plumbing inspection:

*Irving H. Fuller, inspector, Denver.

Appropriations for fiscal years ending June 30, 1930 and 1931:

	1930	1931
Salaries.....	\$27,300	\$27,300
Laboratory equipment and supplies.....	2,000	2,000
Printing and publications.....	2,800	2,800
Traveling expenses.....	5,000	5,000
Samples and supplies (food).....	300	300
Veneral disease.....	20,000	20,000
Incidental expenses.....	1,750	1,750
Total.....	59,150	59,150

CONNECTICUT

Public health council:

S. B. Overlock, M. D.
C. E. A. Winslow, D. P. H.
James W. Knox.
James A. Newlands.
David R. Lyman, M. D.
Robert A. Cairns, C. E.

Executive health officer:

*Stanley H. Osborne, M. D., C. P. H., commissioner of health, Hartford.

Bureau of preventable diseases:

*Millard Knowlton, M. D., C. P. H., director.

Bureau of vital statistics:

*William C. Welling, director.

Bureau of public-health nursing:

*Sarah R. Addison, R. N., director.

Bureau of child hygiene:

*A. Elizabeth Ingraham, M. D.

Bureau of public-health instruction:

*Elizabeth C. Nickerson, C. P. H.

Bureau of laboratories:

*F. Lee Mickle, director.

Bureau of sanitary engineering:

*Warren J. Scott, director.

Division of occupational diseases:

*Albert S. Gray, M. D.

Division of venereal diseases:

*Henry P. Talbot, M. D.

Division of mental hygiene:

*James L. McCartney, M. D., chief.

Division of mouth hygiene:

Clyde R. Salmons, D. D. S., chief.

Division of medical registration:

*Ruth H. Monroe, chief.

Appropriation for fiscal period ending June 30, 1931 (two years), \$648,619.

Publications issued by health department:

Weekly bulletin.
Monthly bulletin.
Annual vital-statistics report.
Annual report of State department of health.
Miscellaneous pamphlets.

DELAWARE

State board of health:

William P. Orr, M. D., president, Lewes.
Mrs. Charles Warner, vice president, Wilmington.
Robert E. Ellegood, M. D., Wilmington.
Margaret I. Handy, M. D., Wilmington.
Mrs. F. G. Tallman, Wilmington.
W. R. Pierce, M. D., Milford.
Mrs. Arthur Brewington, Delmar.
Charles R. Jefferis, Jr., D. D. S., Wilmington.

Executive health officer:

*Arthur C. Jost, M. D., C. M., Dover.

Director of laboratory:

*Rowland D. Hegdman, Dover.

Director of child hygiene:

*Cleland A. Sargent, M. D., Dover.

Sanitary engineer:

*Richard C. Beckett, Dover.

Superintendent of Brandywine sanatorium:

*Lawrence D. Phillips, M. D., Marshallton.

Superintendent of Edgewood sanatorium:

*Elizabeth Van Vranken, R. N., Marshallton.

County unit officers:

*J. R. Downs, M. D., New Castle County.

*E. F. Smith, M. D., Kent County.

*E. Reynolds, M. D., Sussex County.

Appropriations for each fiscal year ending

June 30, 1932 and 1933:

General administration.....	\$90,000
Hygienic laboratory.....	10,500
Edgewood sanatorium for colored tuberculous patients.....	19,000
Brandywine sanatorium for white tuberculous patients.....	65,000

Total..... 184,500

Permanent improvement of Brandywine sanatorium for white tuberculous patients (1931-32)..... 173,000

Special vote for Edgewood sanatorium..... 20,000

State dental hygienists:

For 1932..... 12,000

For 1933..... 14,000

Publications:

Biennial report.

Bi-monthly health news.

Bulletins on health subjects.

DISTRICT OF COLUMBIA

Executive health officer:

*William C. Fowler, M. D., health officer, Washington.

Assistant health officer:

*Edward J. Schwartz, M. D., Washington.

Chief clerk and deputy health officer:

*Arthur G. Cole, Washington.

Chief, bureau of preventable diseases, and director bacteriological laboratory:

*James G. Cumming, M. D., Washington.

Bacteriologist:

*John E. Noble, Washington.

Serologist:

*Jesse P. Porch, D. V. M., Washington.

Chemist:

*John B. Reed, Washington.

Chief sanitary inspector:

*J. Frank Butts, Washington.

Director child hygiene service:

*Hugh J. Davis, M. D., Washington.

Chief food inspector:

*Reid R. Ashworth, D. V. S., Washington.

Chief medical and sanitary inspector of schools:

*Joseph A. Murphy, M. D., Washington.

Micro-analyst:

*Edwin R. Donaldson, Washington.

Appropriations for the fiscal year ending

June 30, 1932:

Salaries.....	\$180,530
Prevention of communicable diseases.....	38,000
Isolation wards at hospitals.....	27,000
Milk and food inspection and regulation.....	8,300
Dispensary service, including treatment of tuberculosis and venereal diseases.....	29,000

Appropriations for the fiscal year ending June 30, 1932—Continued.

Maintaining a child hygienic service.	\$54,000
Hygiene and sanitation, public schools.	96,830
Laboratory service	2,600
Miscellaneous	3,700

Total..... 448,960

Publications issued by health department:

Weekly report by health department.

Annual report of health officer.

Monthly statement of average grade of milk sold.

FLORIDA

Board of health:

H. Mason Smith, M. D., president, Tampa.

Henry E. Palmer, M. D., Tallahassee.

Edward M. L'Engle, M. D., Jacksonville.

Executive health officer:

*Henry Hanson, M. D., State health officer, Jacksonville.

Diagnostic laboratories:

*Paul Eaton, M. D., D. P. H., acting director, Jacksonville.

Bureau of vital statistics:

*Stewart G. Thompson, D. P. H., director, Jacksonville.

Bureau of communicable diseases:

*F. A. Brink, M. D., director, Jacksonville.

Bureau of sanitary engineering:

*E. L. Filby, C. E., director, Jacksonville.

Bureau of child hygiene and public health nursing:

*Lucile Spire Blachly, M. D., director, Jacksonville.

Appropriation for health department:

One-half mill tax levied upon the assessable property of the State for the year ending June 30, 1930.

Publications issued by health department.

Pamphlets covering all phases of public health.

Public health information disseminated through the weekly and daily papers of the State.

Florida health notes.

Annual reports.

GEORGIA

Board of health:

Robert F. Maddox, president, Atlanta.

James H. McDuffie, M. D., vice president, Columbus.

T. F. Abercrombie, M. D., secretary, Atlanta.

C. L. Ridley, M. D., Macon.

A. D. Little, M. D., Thomasville.

W. R. Neal, Savannah.

D. M. Carter, M. D., Madison.

J. G. Dean, M. D., Dawson.

John A. Rhodes, M. D., Crawfordville.

A. C. Shamblin, M. D., Rome.

J. G. Williams, D. D. S., Buford.

M. M. Parks, D. D. S., Valdosta.

W. A. Rivers, M. D., Glenwood.

M. L. Duggan, State superintendent of schools, ex officio, Atlanta.

J. M. Sutton, State veterinarian, ex officio, Atlanta.

Executive health officer:

*T. F. Abercrombie, M. D., commissioner, Atlanta.

*Joe P. Bowdoin, M. D., deputy commissioner, Atlanta.

Division of venereal-disease control:

*Joe P. Bowdoin, M. D., director, Atlanta.

Division of county health work:

*M. E. Winchester, M. D., director, Atlanta.

Division of laboratories:

*T. F. Sellers, director, Atlanta.

Division of sanitary engineering:

*L. M. Clarkson, director, Atlanta.

State tuberculosis sanatorium:

*M. F. Haygood, M. D., Superintendent, Alto.

Bureau of vital statistics:

*Butler Toombs.

Division of child hygiene:

*Joe P. Bowdoin, M. D., director, Atlanta.

Georgia training school for mental defectives:

*John W. Oden, M. D., superintendent.

Division of accounting and purchasing:

*C. L. Tinsley, director, Atlanta.

Appropriations for the fiscal year ending Dec. 31, 1929:

General appropriation.....	\$150,000
Venereal-disease control.....	10,000
Maternity and infant hygiene.....	5,000
State tuberculosis sanatorium.....	250,000
Georgia training school for mental defectives.....	72,270

Total appropriation by legislature. 487,270

Central administration, county health work (International Health Board funds)..... 4,200

Central administration, malaria control (International Health Board funds)..... 3,500

Grand total..... 494,970

HAWAII

Board of health:

F. E. Trotter, M. D., president and executive officer, Honolulu.

Harry R. Hewitt, attorney general, Honolulu.

Grover A. Batten, M. D., Honolulu.

D. S. Bowman, Honolulu.

Gordon C. Ross, Honolulu.

James A. Williams, Honolulu.

J. Platt Cooke, Honolulu.

Executive health officer:

*F. E. Trotter, M. D., president of the board of health, Honolulu.

Secretary:

*Mae R. Weir, Honolulu.

Bureau of sanitation:

*S. W. Tay, director, Honolulu.

*Robert L. Lam, sanitary engineer, Honolulu.

*A. K. Arnold, division supervisor, Oahu, Honolulu.

*Clifford H. Bowman, division supervisor, Island of Hawaii, Hilo.

*R. C. Lane, division supervisor, Island of Maui, Wailuku.

*A. P. Christian, division supervisor, Island of Kauai, Lihue.

Health officer, Island of Hawaii:

*Joseph S. Caceres, Hilo.

Bureau of vital statistics:

*M. H. Lemon, registrar general, Honolulu.

Bacteriologist:

Niles P. Larson, M. D., Honolulu.

Tuberculosis bureau:

*S. E. Doolittle, M. D., Honolulu.

Bureau of public health nursing:

*Mabel L. Smyth, R. N., director, Honolulu.

Food commissioner and analyst:

*M. B. Bairos, Honolulu.

Territorial hospital:

*A. B. Kroll, superintendent, Kaneohe, Oahu.

*A. B. Eckerdt, M. D., medical superintendent, Kaneohe, Oahu.

Bureau of communicable diseases:

Lyle G. Phillips, M. D., director, Honolulu.

Health officer, Island of Kauai:

A. M. Ecklund, M. D., Koloa.

Bureau of maternal and infant hygiene and child welfare:

Frederick K. Lam, M. D., physician-director, Honolulu.

Bacteriologist, Island of Hawaii:

*Fred S. Paine, Hilo.

Bacteriologist, Island of Maui:

G. H. Lightner, M. D., Puunene.

Bacteriologist, Island of Kauai:

A. M. Ecklund, M. D., Koloa.

Appropriations, 1931-1933:

Board of health—General office—

Salary, president.....	\$14,400
Other personal services.....	64,080
Other current expenses.....	14,990
Equipment.....	1,561

Bureau of vital statistics—

Personal services.....	30,240
Other current expenses.....	9,800
Equipment.....	2,600

Bureau of sanitation—

Personal services.....	165,600
Other current expenses.....	25,000
Equipment.....	1,015
Motor vehicles.....	4,650

Plague campaign—

Personal services.....	32,400
Other current expenses.....	16,000
Equipment.....	595

Quarantine service: General service—

Personal services.....	23,520
Other current expenses.....	38,000
Equipment.....	800
Motor vehicles.....	800

Quarantine service: Quarantine stations—

Personal services.....	6,120
Other current expenses.....	8,000
Equipment.....	450

Bacteriological laboratories—

Personal services.....	18,000
Other current expenses.....	3,000
Equipment.....	500

Agents (Government physicians)—

Personal services.....	79,800
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Appropriations, 1931-1933—Continued.

Pure food and drugs—

Personal services.....	\$21,600
Other current expenses.....	3,500
Equipment.....	300

Tuberculosis: Government hospital (Puunahale home)—

Personal services.....	53,570
Other current expenses.....	71,474
Equipment.....	8,904
Buildings.....	4,000

Tuberculosis: private hospitals—

Contributions to Leahi home..... 200,000

Contributions to Kula Sanitarium..... 115,000

Contributions to Samuel Mahelona memorial hospital.. 80,000

Bureau of public health nursing—

Personal services.....	150,120
Other current expenses.....	27,850
Equipment.....	3,053
Motor vehicles.....	10,000

Tuberculosis bureau—

Personal services.....	18,600
Other current expenses.....	11,292
Equipment.....	2,000

Bureau of maternal and infant hygiene and child welfare—

Personal services.....	8,400
Other current expenses.....	4,900
Equipment.....	1,500

Territorial hospital—

Personal services.....	355,720
Other current expenses.....	250,673
Equipment.....	24,000

Kapiolani girls' home—

Personal services.....	11,280
Other current expenses.....	35,000
Equipment.....	1,550

Kalihl boys' home—

Personal services.....	25,320
Other current expenses.....	36,000
Equipment.....	1,250

Boards of examiners—

Personal services.....	250
Other current expenses.....	700

Total..... 2,099,429

Publications issued by health department:

Annual report of president.

Registrar general's report.

Monthly morbidity and mortality report.

IDAHO

Department of public welfare:

*Lewis Williams, Commissioner.

*W. V. Leonard, B. S. M. E., State chemist and sanitary engineer.

R. L. Nourse, M. D., public health adviser.

*Lawrence J. Peterson, B. S. Agr., bacteriologist.

*A. W. Klotz, assistant bacteriologist.

*R. J. Harding, dairy, food, drug, hotel, and sanitary inspector.

Department of public welfare—Continued.

*Floyd E. Landers, dairy, food, drug, hotel, and sanitary inspector.

Executive health officer:

*Lewis Williams, commissioner of public welfare, Boise.

Bureau of child hygiene:

*Lewis Williams, commissioner, ex officio State director, Boise.

Appropriations for biennial period ending

December 31, 1932:

Personal services.....	\$48,360
Other expenses.....	17,800
Veneral-disease control.....	5,500
Child hygiene.....	4,400
Total.....	76,060

ILLINOIS

Board of public-health advisers:

Clifford U. Collins, M. D., chairman.

James H. Hutton, M. D., secretary.

R. J. Coultas, M. D., vice chairman.

Arnold H. Kegel, M. D.

W. A. Evans, M. D.

Executive health officer:

*Andy Hall, M. D., director of public health, Springfield.

Assistant director of public health:

*A. C. Baxter, M. D.

Division of sanitation and engineering:

*Harry F. Ferguson, C. E., chief sanitary engineer.

Division of communicable diseases:

*J. J. McShane, M. D., D. P. H., chief.

Division of child hygiene and public-health nursing:

*Grace S. Wightman, M. D., chief.

Division of tuberculosis:

*A. C. Baxter, M. D., acting chief.

Division of laboratories:

*Howard J. Shaughnessy, Ph. D., chief.

Division of vital statistics:

*Sheldon L. Howard, registrar.

Division of public-health instruction:

*Baxter K. Richardson, chief.

Division of social hygiene:

*C. C. Copelan, M. D., chief.

Division of hotel and lodging house inspection:

*William F. Behrens, superintendent.

Appropriations for biennial period ending

June 30, 1933:

Salaries.....	\$816,000
Salaries State officers.....	32,000
Office expenses.....	26,506
Traveling expenses.....	134,900
Operation.....	247,199
Repairs and equipment.....	28,137
Contingent.....	32,700
Printing.....	60,000
Postage.....	20,000
Sanitary water board law.....	30,000
Rabies.....	6,000
Total.....	1,433,442

Publications issued by health department:

Illinois Health Quarterly.

Illinois Health Messenger (bimonthly).

Weekly press bulletin.

Educational health circulars.

INDIANA

Board of health:

A. J. Hostetler, M. D., president, Lagrange.

A. C. McDonald, M. D., Warsaw.

John H. Hare, M. D., Evansville.

T. W. Oberlin, M. D., Hammond.

William F. King, M. D., secretary, Indianapolis.

Executive health officer:

*William F. King, M. D., State health commissioner, Indianapolis.

Epidemiologist and assistant secretary:

*V. K. Harvey, M. D., Indianapolis.

Division of vital statistics:

*H. M. Wright, director, Indianapolis.

Laboratory of hygiene:

*C. F. Adams, M. D., director, Indianapolis, B. S. A.

Division of chemistry:

*I. L. Miller, State food and drug commissioner, director, Indianapolis.

Department of dairy products:

*Frank C. Wilson, director, Indianapolis.

Department of sanitary engineering:

*Lewis S. Finch, director, Indianapolis.

Food and drug laboratory:

*Frank J. Koehne, director, Indianapolis.

Division of child hygiene:

*Ada E. Schweitzer, M. D., director, Indianapolis.

Division of communicable diseases:

*H. W. McKane, M. D., director, Indianapolis.

Division of school hygiene:

*H. R. Condrey, director, Indianapolis.

Division of housing and industrial hygiene:

*A. E. Wert, director, Indianapolis.

Division of public-health nursing:

*Eva F. MacDougall, R. N., director, Indianapolis.

Appropriations for biennial period ending September 30, 1933, \$274,000 per annum.

IOWA

State department of health:

EX OFFICIO

Dan W. Turner, governor, Des Moines.

G. C. Greenwalt, secretary of state, Des Moines.

R. E. Johnson, treasurer of state, Des Moines.

J. W. Long, auditor of state, Des Moines.

M. G. Thornburg, secretary of agriculture, Des Moines.

D. C. Steelsmith, M. D., State commissioner of health, Des Moines.

APPOINTEE BY GOVERNOR

H. W. Plummer, M. D., president, Lima Springs.

C. T. Lesnn, M. D., Mount Ayr.

W. A. Seidler, M. D., Jamaica.

J. D. Lowry, M. D., Fort Dodge.

Arthur J. Weaver, M. D., Muscatine.

Executive health officer:

*D. C. Steelsmith, M. D., C. P. H., commissioner of health, Des Moines.

*Joseph H. Kinnaman, M. D., deputy commissioner of health, Des Moines.

Chief clerk:

*Lynn Clemens, Des Moines.

Secretary:

*Naomi B. Wherry, Des Moines.

Division of preventable diseases:

*Howard A. Lanpher, M. D., C. P. H., director and epidemiologist, Des Moines.

Cooperative county health units:

*E. R. Coffey, M. D.

Division of vital statistics:

*R. L. McLaren, director, Des Moines.

Division of sanitary engineering:

*A. H. Wieters, C. E., director, Des Moines.

Division of nursing education:

*Maude E. Sutton, R. N., director, Des Moines.

Division of examinations and licensures:

*H. W. Grefe, director, Des Moines.

Division of law enforcement:

*Herman B. Carlson, LL. D., inspector, Des Moines.

*George N. Lyman, assistant inspector, Des Moines.

Division of barber inspection:

*John T. McGruder, chief inspector, Des Moines.

Division of cosmetology inspection:

*Naomi M. Krause, secretary, Des Moines.

Division of maternity and child hygiene:

*Clara E. Hayes, M. D., director, Des Moines.

Public health nursing—

*Edith S. Countryman, R. N., director, Des Moines.

Housing work is carried on by engineering division.

Medical, nurses, dental, optometry, cosmetology, chiropractic, osteopathy, embalming, podiatry, and barber examining boards are combined in State department of health.

Appropriations for fiscal year ending June 30, 1931:

For salaries and wages.....	\$38,200
Miscellaneous travelling.....	3,500
Antitoxin, vaccine, and other prophylactics.....	10,000
Sanitary engineering and housing—	
Salaries and wages.....	15,200
Traveling.....	6,000
Equipment and laboratory.....	1,000
Quarantine enforcement and other contingencies.....	4,000
Travelling epidemiologist.....	1,200
Stream pollution.....	1,000
Maternity and child hygiene:	
Salaries and wages.....	8,350
Traveling expenses.....	3,000
Tuberculosis and other activities.....	3,000
Replacing car.....	1,500

Total..... 95,950

Publications:

Biennial report.
Quarterly bulletin.
Health news-letter.

KANSAS

Board of health:

Clarence A. McGuire, M. D., president, Topeka.
H. L. Aldrich, M. D., vice president, Caney.
George I. Thacher, M. D., Waterville.

Board of health—Continued.

John H. Henson, M. D., Mound Valley.
Charles W. Robinson, M. D., Atchison.
Clay E. Coburn, M. D., Kansas City.
C. M. Jenney, M. D., Salina.
Anna Perkins, M. D., El Dorado.
Walter J. Eilerts, M. D., Wichita.
Thomas H. Finnigan, attorney, Kansas City.

Executive health officer:

*Earle G. Brown, M. D., secretary State board of health, Topeka.

Division of vital statistics:

*W. J. Davies, State registrar.

Division of communicable diseases:

*C. H. Kinnaman, M. D., epidemiologist, Topeka.

Division of foods and drugs:

*Thomas I. Dalton, Ph. C., assistant chief food and drug inspector, Topeka.

Division of child hygiene:

*J. C. Montgomery, M. D., chief, Topeka.

Division of rural sanitation:

*J. C. Montgomery, M. D., director, Topeka.

Division of water and sewage:

Ernest Boyce, chief, Lawrence.

Division of public-health education:

*Earle G. Brown, M. D., director, Topeka.

Division of venereal diseases:

*Earle G. Brown, M. D., director, Topeka.

Water and sewage laboratories at Kansas University:

Ernest Boyce, director, Lawrence.

Food laboratory at Kansas University:

Prof. E. H. S. Bailey, director of food analysis, Lawrence.

Drug laboratory at Kansas University:

Prof. L. D. Havenhill, director of drug analysis, Lawrence.

Food laboratory at Kansas Agricultural College:

Prof. H. H. King, director of food analysis, Manhattan.

Public-health laboratory, Topeka:

*Earle G. Brown, M. D., acting director, Topeka.

Appropriations for the fiscal year ending June 30, 1930:

	Salaries	Total
Executive.....	\$5,800	\$8,750
Division of communicable diseases.....	4,500	10,700
Division of food and drugs.....	10,400	15,400
Division of child hygiene.....	7,300	10,000
Division of cooperative county health work.....		7,500
Public health laboratory, including appropriation for the purchase of arsenamine for the treatment of indigent cases of syphilis.....	6,340	10,000
Division sanitation.....		3,000
Board members.....		1,250
Total.....	\$4,340	66,600

Other sources of revenue:

Marriage fees, approximately \$20,000.

Water and ice analysis fees, approximately \$14,000.

Publications issued by health department:

Biennial report.

Weekly morbidity report.

KENTUCKY

Board of health:

E. M. Howard, M. D., president, Harlan.

Geo. S. Coon, M. D., Louisville.

A. T. McCormack, M. D., secretary, Louisville.

J. Watts Stovall, M. D., Grayson.

Lawrence T. Minish, M. D., Frankfort.

B. B. Keys, M. D., Murray.

F. L. Johnson, M. D., Livermore.

C. J. Johnson, D. O., Louisville.

Addison Dimmitt, Louisville.

Executive health officer:

*A. T. McCormack, M. D., D. P. H., State health officer, Louisville.

Bureau of county health work:

*P. E. Blackerby, M. D., director and assistant State health officer, Louisville.

*F. W. Forge, M. D., assistant, Louisville.

*V. A. Stilley, M. D., assistant, Benton.

Bureau of vital statistics:

*J. F. Blackerby, director, Louisville.

Bureau of bacteriology:

*Lillian H. South, M. D., director, Louisville.

Bureau of sanitary engineering:

*F. C. Dugan, C. E., director, Louisville.

Bureau of food, drugs, and hotels:

*Sarah Vance Dugan, director, Louisville.

Bureau of venereal diseases:

*Jethra Hancock, M. D., Louisville.

Bureau of public health nursing:

*Margaret East, R. N., director, Louisville.

Bureau of maternal and child health:

*Annie S. Veech, M. D., director, Louisville.

*Juanita Jennings, M. D., assistant.

Bureau of prevention of trachoma and blindness:

*C. B. Kobert, M. D., director, Louisville.

Bureau of budget:

*Elva V. Grant, director, Louisville.

Bureau of epidemiology:

*J. L. Jones, M. D., director, Louisville.

Bureau of tuberculosis and State tuberculosis sanitarium:

*Paul A. Turner, M. D., director and superintendent, Louisville.

Bureau of dental health:

J. F. Owen, D. D. S., director, Lexington.

Legislative appropriation for fiscal year ending June 30, 1932, \$281,134.

Publications issued by health department:

Monthly bulletin.

LOUISIANA

Board of health:

J. A. O'Hara, M. D., president, New Orleans.

L. A. Guidry, M. D., Sunset.

L. Roland Young, M. D., Covington.

S. de Nux, M. D., Marksville.

J. L. Kelly, M. D., Oak Grove.

(Other members to be appointed.)

Fannie B. Nelken, secretary.

Executive health officer:

*J. A. O'Hara, M. D., president, board of health, New Orleans.

Bacteriologist:

W. H. Seemann, M. D., New Orleans.

Registrar vital statistics:

J. Geo. Dempsey, M. D., New Orleans.

Mosquito-malaria control:

*W. T. Browne, Ph. D., M. D., director, New Orleans.

Bureau of mental hygiene:

H. R. Unsworth, M. D., director, New Orleans.

Research information:

*P. A. Kibbe, M. D.

Dairy and medical inspection:

E. J. deBergue, M. D., New Orleans.

Bureau of public health administration:

*George S. Bote, executive assistant, U. S.

P. H. S., acting director, New Orleans.

Sanitary engineer:

*John H. O'Neill, New Orleans.

Analyst:

*Cassius L. Clay, New Orleans.

Bureau of animal industry:

*G. T. Jackson, D. V. S., director, New Orleans.

Sanitary inspection:

Peter Rohrs, Jr., chief, New Orleans.

Auditor:

Phil Arras, New Orleans.

Appropriations for fiscal year:

1930-31, \$406,000.

1931-32, \$406,000.

Publications issued by health department:

Quarterly bulletin.

Biennial report.

Miscellaneous leaflets.

MAINE

Public health council:

C. F. Kendall, M. D., chairman, Augusta.

H. A. Kelley, D. D. S., Portland.

Annie Peabody, Portland.

J. G. Towne, M. D., Waterville.

O. R. Emerson, M. D., Newport.

Mrs. Agnes B. Hall, Hampden.

Executive health officer:

*C. F. Kendall, M. D., State commissioner of health, Augusta.

Division of administration:

*C. F. Kendall, M. D., Augusta.

Division of communicable diseases:

*William L. Holt, C. P. H., M. D., director, Augusta.

Division of laboratories:

*Alfred G. Long, M. D., C. P. H., Augusta.

Division of sanitary engineering:

*Elmer W. Campbell, D. P. H., Augusta.

Division of vital statistics:

*C. F. Kendall, M. D., State registrar, Augusta.

Division of social hygiene:

*William L. Holt, C. P. H., M. D., director, Augusta.

Division of public health nursing and child hygiene:

*Edith L. Soule, R. N., Augusta.

Division of dental hygiene:

*Dorothy Bryant, D. H., Augusta.

District health officers:

*J. L. Pepper, M. D., South Portland.

*E. P. Goodrich, M. D., Winterport.

*R. L. Mitchell, M. D., Lewiston.

*G. H. Hutchins, M. D., Waterville.

*L. W. Hadley, Ph. B., M. D., Machias.

District health officers—Continued.

*James W. Loughlin, M. D., Newcastle.

*B. F. Porter, M. D., Caribou.

Appropriations for fiscal year ending June 30, 1931:

Salaries and clerk hire.....	\$39,000
Office expense and epidemic fund.....	22,000
District and local health officers.....	40,000
Veneral-disease control work.....	14,000
Maternity and child-welfare work.....	25,000
Branch State laboratory, Caribou.....	3,000
Aid for typhoid carriers.....	5,000

Total..... 148,000

Other sources of revenue:

Census Bureau, Washington, D. C., about \$800.

License fees from camps, roadside eating and lodging places, about \$12,000.

MARYLAND

Board of health:

Robert H. Riley, M. D., chairman, Baltimore.

Thomas S. Cullen, M. D., Baltimore.

Wm. P. Lane, Jr., attorney general, Baltimore.

William W. Ford, M. D., Baltimore.

C. Hampson Jones, M. D., Baltimore.

Tolley A. Blays, Baltimore.

Benjamin C. Ferry, M. D., Bethesda.

E. F. Kelly, Phar. D., Baltimore.

Burt B. Ide, D. D. S., Baltimore.

Executive health officer:

*Robert H. Riley, M. D., Dr. P. H., director of health, Baltimore.

Division of personnel and accounts:

*Walter N. Kirkman, chief, Baltimore.

Division of oral hygiene:

*Richard C. Leonard, D. D. S., chief, Baltimore.

Division of legal administration:

*J. Davis Donovan, chief, Baltimore.

Committee on public health education:

*Gertrude B. Knipp, secretary, Baltimore.

Bureau of communicable diseases:

*Robert H. Riley, M. D., Dr. P. H., chief, Baltimore.

*C. H. Halliday, M. D., epidemiologist, Baltimore.

*C. W. G. Rohrer, M. D., diagnostician, Baltimore.

Bureau of vital statistics:

*John Collinson, M. D., Dr. P. H., chief, Baltimore.

Food and drug commissioner:

*A. L. Sullivan, chief, Baltimore.

Deputy food and drug commissioner:

*R. L. Swain, Ph. D.

Bureau of bacteriology:

*C. A. Perry, chief, Baltimore.

Bureau of sanitary engineering:

*Abel Wolman, B. S. E., chief, Baltimore.

Bureau of chemistry:

*John C. Krantz, Jr., chief, Baltimore.

Bureau of child hygiene:

*J. H. Mason Knox, Jr., M. D., chief, Baltimore.

Appropriations for fiscal year ended September 30, 1930:

Salaries.....	\$280,317
Expenses.....	149,375
Emergency appropriation (epidemics, etc.).....	10,000
Total.....	439,692

Publications issued by health department:

Annual report.

Weekly News Letter.

Monthly bulletin.

MASSACHUSETTS

Public health council:

George H. Rigelow, M. D., chairman, Boston.

Roger I. Lee, M. D., Boston.

Francis H. Lally, M. D., Milford.

Richard P. Strong, M. D., Boston.

Sylvester E. Ryan, M. D., Springfield.

James L. Tighe, Holyoke.

Gordon Hutchins, Concord.

Executive health officer:

*George H. Bigelow, M. D., State Commissioner of public health, Boston.

Secretary:

*Alice M. Ethier.

Division of administration:

(Under direction of commissioner.)

Division of communicable diseases:

*Gaylord W. Anderson, M. D., director, Boston.

Division of sanitary engineering:

*Arthur D. Weston, C. E., director and chief engineer, Boston.

Division of water and sewage laboratories:

*H. W. Clark, director and chemist, Boston.

Division of biologic laboratories:

*Benjamin White, Ph. D., director and pathologist, Boston.

Division of food and drugs:

*Hermann C. Lythgoe, director and analyst, Boston.

Division of child hygiene:

*M. Luke Diez, M. D., director, Boston.

Division of tuberculosis sanatoria:

*Alton S. Pope, M. D., director, Boston.

Division of adult hygiene:

*Herbert L. Lombard, M. D., director, Boston.

Appropriations for department of public health, 1931:

Division of administration—

Salary of commissioner.....	\$7,500
Personal services.....	20,100
Services other than personal.....	14,800

Division of child hygiene—

Personal services of director and assistants.....	38,750
Services other than personal.....	21,000
Personal services in connection with maternal and infant hygiene.....	21,800
Expenses in connection with maternal and infant hygiene.....	14,000

Appropriations for Department of public health, 1931—Continued.

Division of communicable diseases—

Personal services of director, district health officers, etc.....	\$74,500
Services other than personal.....	20,500
Personal services in connection with control of venereal diseases.....	13,800
Expenses in connection with control of venereal diseases.....	30,000
Wassermann Laboratory—	
For personal services.....	16,600
For expenses of laboratory.....	5,200
Antitoxin and vaccine laboratory—	
For personal services.....	71,000
Other services.....	42,500
Inspection of food and drugs—	
For personal services.....	54,200
Other services.....	14,000
For administering the shellfish law—	
Personal services.....	2,280
Other services.....	1,890
Water supply and disposal of sewage, engineering division—	
For personal services.....	71,000
For other services.....	22,000
Water supply and disposal of sewage, division of water and sewage laboratories—	
For personal services.....	44,000
For other services.....	8,000
Division of tuberculosis—	
For personal services.....	41,700
Services other than personal.....	9,700
For personal services of tuberculosis clinic units.....	60,000
Services other than personal (clinic units).....	35,600
Payment of subsidies.....	281,000
For maintenance of and for certain improvements at the Lakeville, North Reading, Rutland, and Westfield State sanatoria.....	1,250,440
Division of adult hygiene—	
For personal services.....	44,500
For other expenses.....	41,700
Cancer hospital at Norfolk—	
For maintenance of and for certain improvements.....	255,050
Total.....	2,659,010

MICHIGAN

Advisory council of health:

Robert B. Harkness, M. D., Houghton.
 Chalmers J. Lyons, D. D. Sc., Ann Arbor.
 Louis J. Hirschman, M. D., Detroit.
 Karl B. Brucker, M. D., Lansing.
 George H. Curry, M. D., Flint.

Executive health officer:

*C. C. Siemons, M. D., Dr. P. H., State health commissioner, Lansing.

Bureau of engineering:

*E. D. Rich, C. E., director.
 *John M. Hepler, assistant engineer.
 *Willard F. Shephard, B. S. E., assistant engineer.
 *Raymond J. Faust, assistant engineer.
 *Herbert H. Hasson, assistant engineer.
 *Orla E. McGuire, assistant engineer.

Bureau of laboratories:

*C. C. Young, Ph. D., Dr. P. H., director.
 *Wm. E. Bunney, Ph. D., associate director.
 *Minna Crooks, R. N., bacteriologist.
 *M. B. Kurtz, D. V. M., serologist.
 *Pearl Kendrick, bacteriologist, West Michigan division.
 *Ora Mills, bacteriologist, Houghton branch.
 *A. B. Haw, clinical pathologist.
 *Newton D. Larkum, Ph. D., immunologist.
 *Roy W. Pryor, Dr. P. H., immunologist.
 *Charles L. Bliss, toxicologist.
 *Bruce Robinson, superintendent, biologic plant.

Bureau of child hygiene and public health nursing:

*Lillian R. Smith, M. D., director.
 *Muriel A. Case, M. D., physician.
 *Ida M. Alexander, M. D., prenatal consultant.
 *Helen de Spelder Moore, R. N., assistant director.

Bureau of records and statistics:

*W. J. V. Deacon, M. D., director.

Bureau of education:

*Marjorie Delavan, director.
 *Pearl Turner, assistant director.
 *Melita Hutzel, lecturer.

Bureau of embalming:

*Frank J. Pienta, director.

Bureau of epidemiology:

*C. D. Barrett, M. D., C. P. H., director.
 *W. J. Murphy, M. D., M. P. H., field epidemiologist.

Bureau of mouth hygiene:

*William R. Davis, D. D. S., director.

Appropriations for fiscal year ending June 30, 1932:

Personal services.....	\$271,000
Supplies.....	120,000
Contractual service.....	
Outlay for equipment.....	4,000
Total.....	395,000
County health departments.....	30,000
Resort and roadside water inspection.....	10,000
Plumbing division.....	20,000
Smallpox vaccine, toxoid mfg.....	10,000

Grand total..... 465,000

Publications issued by health department:

Monthly bulletin.
 Annual report.
 Communicable disease pamphlets.
 Sex hygiene pamphlets.
 Child hygiene pamphlets.
 Engineering bulletins.
 Mouth hygiene pamphlets.
 Scientific reprint series.
 Rules and regulations.

MINNESOTA

Board of health:

J. A. Thabes, sr., M. D., president, Brainerd.
N. G. Mortensen, M. D., vice president, St. Paul.

H. R. Weirick, M. D., Hibbing.
C. L. Scofield, M. D., Benson.
N. M. Watson, M. D., Red Lake Falls.
C. I. Oliver, M. D., Graceville.
A. S. Milinowski, C. E., St. Paul.
W. H. Barr, M. D., Wells.
Frederic Bass, Minneapolis.

Executive health officer, Old Capitol, St. Paul:

*A. J. Chesley, M. D., secretary and executive officer.

Division of administration, Old Capitol, St. Paul:

*O. C. Pierson, director.

Division of vital statistics, Old Capitol, St. Paul:

*Gerda C. Pierson, director.

Division of hotel inspection, Old Capitol, St. Paul:

*I. C. Strout, State hotel inspector.

Division of preventable diseases (including venereal diseases), university campus, Minneapolis:

*O. McDaniel, M. D., director.
*Lucy Heathman, Ph. D., chief of laboratories.
*W. P. Greene, M. D., epidemiologist.
*James E. Perkins, M. D., epidemiologist.
*Ralph R. Sullivan, M. D., epidemiologist.

Division of sanitation, university campus, Minneapolis:

*H. A. Whittaker, director.
*O. E. Brownell, C. E., senior sanitary engineer.

Division of child hygiene, university campus, Minneapolis:

Everett C. Hartley, M. D., director.
*Olivia Peterson, R. N., superintendent of public-health nursing.

Appropriation for fiscal year ending June 30, 1932:

Maintenance and vital statistics—	
Salaries.....	\$33,200
Expenses.....	8,500
	41,700
Providing free antitoxin and other biological products.....	5,000
Venereal diseases and venereal disease education.....	22,500
Sanitary engineering and laboratory....	30,000
Preventable diseases and laboratory....	70,800
Protection for maternity and infancy....	34,500
Indian health work.....	10,000
Hotel inspection.....	42,000
Stream pollution survey.....	5,000
Printing of report.....	1,800
Total.....	263,390

Publications issued by health department:
Educational pamphlets.

MISSISSIPPI

Board of health:

J. W. Lipscomb, M. D., president, Columbus.
Felix J. Underwood, M. D., secretary, Jackson.
S. E. Eason, M. D., New Albany.
L. B. Austin, M. D., Rosedale.
W. A. Dearman, M. D., Gulfport.

Board of health—Continued.

B. J. Shaw, M. D., Slate Springs.
W. H. Frizell, M. D., Brookhaven.
John Darrington, M. D., Yazoo City.
Dudley Stennis, M. D., Newton.
Wm. R. Wright, D. D. S., Jackson.

Executive health officer:

*Felix J. Underwood, M. D., secretary, State board of health, Jackson.

Bureau of vital statistics:

*R. N. Whitfield, M. D., director, Jackson.

Bureau of child hygiene and public health nursing:

*Felix J. Underwood, M. D., acting director, Jackson.

*Mary D. Osborne, R. N., supervisor, public health nursing, Jackson.

*Gladys Eyrich, supervisor oral hygiene, Jackson.

Hygienic laboratory:

*T. W. Kemmerer, M. D., director, Jackson.

Bureau of sanitary engineering:

*H. A. Kroeze, C. E., director, Jackson.

*N. M. Parker, D. V. S., State sanitary inspector, Jackson.

*C. M. Ledbetter, State sanitary inspector, Jackson.

*Floyd Ratliff, State sanitary inspector, Jackson.

Bureau of malaria control:

*Mark F. Boyd, M. D., C. P. H., director, Jackson.

Bureau of county health work:

*C. C. Applewhite, M. D., director, Jackson.

Bureau of communicable diseases:

H. C. Ricks, M. D., C. P. H., director, Jackson.

Bureau of tuberculosis control:

*Henry Boswell, M. D., director, Sanatorium.

Bureau of industrial hygiene:

*J. W. Dugger, M. D., director, Jackson.

Field unit:

*J. A. Milne, M. D., C. P. H., director, Jackson.

State appropriation for period January 1, 1931, to December 31, 1931, \$195,000.

Publications issued by health department:

Biennial report.

Weekly health letters published in all newspapers of the State.

Health pamphlets.

MISSOURI

Board of health:

Francis M. McCallum, M. D., president, Kansas City.

Horace W. Carle, M. D., vice president, St. Joseph.

James Stewart, M. D., secretary, Jefferson City.

H. L. Kerr, M. D., Crane.

W. A. Clark, M. D., Jefferson City.

Ed Sanborn Smith, M. D., Kirksville.

H. S. Gove, M. D., Linn.

Executive health officer:

*James Stewart, M. D., State health commissioner, Jefferson City.

*Iri Brown Krause, M. D., assistant State health commissioner, Jefferson City.

Epidemiology:

*R. L. Russell, M. D., assistant epidemiologist.

Laboratories:

*R. L. Laybourn, bacteriologist.

Sanitary engineering:

*W. Scott Johnson, chief engineer.

Vital statistics:

Ross Hopkins, M. D., statistician.

Child hygiene and cooperative county health work:

*Iri Brown Krause, M. D., director.

Public health nursing:

*Pearl Melver, R. N., director.

Appropriations for biennial period of 1931-32:**Board of health—**

Licensure.....	\$40,000
Salaries.....	163,114
Contingent, operation, additions, repairs and replacements.....	74,945
Public health fund.....	159,500

Total..... 437,559

MONTANA**Board of health:**

L. H. Fligman, M. D., president, Helena.

B. L. Pampel, M. D., vice president, Livingston.

E. G. Balsam, M. D., Billings.

E. M. Porter, M. D., Great Falls.

George M. Jennings, M. D., Missoula.

Executive health officer:

*W. F. Cogswell, M. D., secretary, Helena.

Division of communicable diseases:

*J. H. Crouch, M. D., epidemiologist, Helena.

Division of child welfare:

*Miss Alma Wretling, R. N., director, Helena.

Division of food and drugs:

*W. F. Cashmore, Jr., director, Helena.

Division of vital statistics:

*W. F. Cogswell, M. D., State registrar, Helena.

*L. L. Benepe, deputy State registrar, Helena.

Division of water and sewage:

*H. B. Foote, director, Helena.

W. M. Cobleigh, consultant, Bozeman.

*Jacob W. Forbes, assistant sanitary engineer, Helena.

*Oliver Morgan, analyst, Helena.

Hygienic laboratory:

*Fred D. Stimpert, director, Helena.

*Edith Kuhns, technician, Helena.

E. D. Hitchcock, M. D., consulting bacteriologist, Great Falls.

Appropriations for the years ending—

	June 30, 1932	June 30, 1933
Salaries.....	\$30,050	\$30,050
Operating expenses.....	12,000	12,000
Capital repairs and replacements.....	1,350	1,350
Division of child welfare.....	15,000	15,000
Board of entomology (Rocky Mountain spotted-fever work).....	13,060	13,060
Total.....	71,460	71,460

Publications issued by health department:

Special bulletins on communicable diseases.

Biennial report.

NEBRASKA**Department of public welfare:**

*P. H. Bartholomew, M. D., assistant secretary, Lincoln.

Bureau of health—**Executive health officer—**

*P. H. Bartholomew, M. D., director of public health, Lincoln.

Collaborating epidemiologist—

*P. H. Bartholomew, M. D., Lincoln.

Bacteriologist—

*L. O. Vose, Lincoln.

Division of venereal diseases—

*P. H. Bartholomew, M. D., director, Lincoln.

Statistician—

*Bertha Riesland, Lincoln.

Medical examining board—

W. R. Boyer, M. D., Pawnee City.

H. J. Lehnhoff, M. D., Lincoln.

E. T. McGuire, M. D., Mead.

Appropriations for biennial period ending

June 30, 1933:

Salaries.....	\$30,000
Maintenance.....	15,000
Total.....	45,000

NEVADA**State board of health:**

F. B. Balzar, governor, president, Carson City.

Edward E. Hamer, M. D., secretary and State health officer, Carson City.

W. G. Greathouse, secretary of State.

John Fuller, M. D., Reno.

C. W. West, M. D., Reno.

Executive health officer:

*Edward E. Hamer, M. D., Carson City.

State hygienic laboratory at State university:

*Vera E. Lautenschlager, acting director, Reno.

Appropriations for 1931 and 1932:

Salary of secretary.....	\$5,000
For State board of health.....	6,000
For purchase of diphtheria antitoxin for free distribution.....	500
For bureau of vital statistics.....	500

Total..... 12,000

Publications issued by health department:

Biennial report.

Special bulletins.

NEW HAMPSHIRE**Board of health:**

Robert Fletcher, C. E., president, Hanover.

D. E. Sullivan, M. D., Concord.

George C. Wilkins, M. D., Manchester.

Sibley G. Morrill, M. D., Concord.

Board of health—Continued.

John G. Winant, governor.

Ralph W. Davis, attorney general, Manchester.

Executive health officer:

*Charles Duncan, M. D., secretary, State board of health, Concord.

*Harriet I. Parkhurst, chief clerk, Concord.

Division of maternity, infancy, and child hygiene:

*Mary D. Davis, R. N., director and supervising nurse, Manchester.

Department of vital statistics:

*Charles Duncan, M. D., registrar, Concord.

*Doris P. Bartlett, chief clerk, Concord.

Division of chemistry and sanitation:

*Charles D. Howard, chief of division, Concord.

*Frederick Vintinner, assistant chemist, Concord.

*Harriet I. Albee, assistant chemist and bacteriologist, Concord.

*Leonard W. Trager, assistant sanitary engineer, Concord.

*Joseph X. Duval, chief inspector, Concord.

Diagnostic and pathological department—

*William R. Macleod, serologist and diagnostic bacteriologist, Concord.

H. N. Kingsford, M. D., pathologist, Hanover.

*Benj. Jewell, assistant in pathological laboratory, Concord.

Veneral disease division:

*Charles A. Weaver, M. D., Manchester.

Appropriations for fiscal year ending

June 30, 1932:

State board of health.....	\$51,950
Laboratory of hygiene.....	19,100
Vital statistics.....	3,800

Total..... 74,850

Publications issued by health department:

Bulletin.

Biennial report.

NEW JERSEY**Board of health:**

Charles I. Lafferty, president, Atlantic City.

Harold J. Harder, C. E., vice president, Paterson.

David D. Chandler, Newark.

H. E. Winter, V. M. D., Plainfield.

J. Oliver McDonald, M. D., Trenton.

S. A. Cosgrove, M. D., Jersey City.

Mrs. Helen M. Berry, Newark.

Margaret McNaughton, Jersey City.

J. E. H. Guthrie, D. D. S., Newark.

Frank S. Tainter, C. E., Far Hills.

Executive health officer:

*J. Lynn Mahaffey, M. D., director of health, Trenton.

Bureau of Bacteriology:

*John V. Mulcahy, chief, Trenton.

Bureau of chemistry:

*John E. Bacon, chief, Trenton.

Bureau of administration:

*Charles J. Merrell, chief, Trenton.

Bureau of food and drugs:

*Walter W. Scofield, chief, Trenton.

Bureau of child hygiene:

Julius Levy, M. D., consultant, Trenton.

Bureau of local health administration:

Wm. H. McDonald, acting chief, Trenton.

Bureau of engineering:

*H. P. Croft, chief, Trenton.

Bureau of vital statistics:

*David S. South, chief, Trenton.

Bureau of venereal-disease control:

A. J. Casselman, M. D., consultant, Trenton.

Appropriations for fiscal year ending

June 30, 1932:

Salaries.....	\$244,100.00
Miscellaneous.....	128,440.00
Child hygiene.....	139,050.00
Venereal-disease control.....	28,112.50

Total..... 539,708.50

Publications issued by health department:

Monthly bulletin.

Annual report.

NEW MEXICO**Board of public welfare:**

Robert O. Brown, M. D., president, Santa Fe.

Mrs. Max Nordhaus, vice president, Albuquerque.

Mrs. Francis C. Wilson, secretary, Santa Fe.

Mrs. Frances E. Nixon, Santa Fe.

J. G. Osburn, Roswell.

Executive health officer:

*J. Rosalyn Karp, Dr. P. H., director of public health, Santa Fe.

Division of sanitary engineering and sanitation:

*Paul S. Fox, M. S. in C. E., chief, Santa Fe.

State supervisor of public-health nursing:

*Eleanor L. Kennedy, R. N., Santa Fe.

Division of county health work:**Public health laboratory:**

*Myrtle Greenfield, chief, Albuquerque.

State registrar:

*Miss Billy Tober, Santa Fe.

Appropriation for years 1931-32 and 1932-33, per annum, \$38,400. Fiscal year ends June 30.

NEW YORK**Public health council:**

Simon Flexner, M. D., LL. D., chairman, New York.

Homer Folks, LL. D., vice chairman, Yonkers.

Henry N. Ogden, C. E., Ithaca.

Frederick F. Russell, M. D., New York.

Jacob Goldberg, M. D., Buffalo.

Stanton P. Hull, M. D., Petersburg.

Thomas Parran, Jr., M. D. (ex officio), commissioner of health, Albany.

Executive health officer:

*Thomas Parran, Jr., M. D., State commissioner of health, Albany.

Deputy commissioner of health:

*Paul B. Brooks, M. D., Albany.

Administrative officer:

*Fenimore D. Beagle, Albany.

Division of public health education:

*B. R. Rickards, director, Albany.

Division of sanitation:

*Charles A. Holmquist, C. E., director, Albany.

Division of vital statistics:

*Joseph V. De Porte, Ph. D., director, Albany.

Division of maternity, infancy, and child hygiene:

*Elizabeth M. Gardiner, M. D., director, Albany.

Division of communicable diseases:

*Herman F. Semtner, M. D., acting director, Albany.

Division of tuberculosis:

*Robert E. Plunkett, M. D., director, Albany.

Division of social hygiene:

*Albert Pfeiffer, M. D. director, Albany.

Division of laboratories and research:

*Augustus B. Wadsworth, M. D., director, Albany.

Division of public health nursing:

*Mathilde S. Kuhlman, R. N., director, Albany.

Division of orthopedics:

*Walter J. Craig, M. D. director, Albany.

Institute for the study of malignant disease, Buffalo:

*Burton T. Simpson, M. D., director.

New York State Hospital for Incipient Pulmonary Tuberculosis, Ray Brook:

*H. A. Bray, M. D., superintendent.

New York State Reconstruction Home, West Haverstraw:

*John J. Kelly, superintendent.

Appropriations for fiscal year ending June 30, 1932:

Personal service.....	\$1,688,596
Maintenance and operation.....	972,555
State aid to county laboratories.....	125,000
State aid to county health activities.....	366,043
Emergency poliomyelitis fund.....	115,000
Construction and permanent betterments.....	1,059,550

Total..... 4,326,744

Other sources of revenue:

Fees from certified transcripts of birth, death, and marriage certificates, \$2,213.90 per annum.

Licensing laboratories, \$466.

Sale of serums, \$1,309.21.

Licensing of embalmers and undertakers, \$10,534.

Registration of embalmers and undertakers, \$27,675.

Rental of radium, \$600.

Care of county cases at reconstruction house, \$27,000.

Refund of transportation of discharged patients from tuberculosis hospital, Ray Brook, \$4,000.

Publications issued by health department:

Weekly Health News.

Monthly Vital Statistics Review.

Annual report.

NORTH CAROLINA**Board of health:**

J. T. Burrus, M. D., president, High Point.

Carl V. Reynolds, M. D., vice president, Asheville.

G. C. Dixon, M. D., Ayden.

L. E. Evans, M. D., Windsor.

S. D. Craig, M. D., Winston-Salem.

H. Lee Large, M. D., Rocky Mount.

J. N. Johnson, D. D. S., Goldsboro.

Board of health—Continued.

H. G. Baily, Ph. D., Chapel Hill.

J. A. Goode, Ph. G., Asheville.

Executive health officer:

*James M. Parrott, M. D., secretary, and State health officer, Raleigh.

Division of laboratories:

*C. A. Shore, M. D., director, Raleigh.

Division of sanitary engineering:

*Warren H. Booker, C. E., director, Raleigh.

Division of preventive medicine:

*G. M. Cooper, M. D., director, Raleigh.

(a) Child Hygiene.

(b) Health education and vital statistics.

Division of county health activities and epidemiology:

*John H. Hamilton, M. D., director, Raleigh.

Division of statistics:

*Ernest A. Branch, D. D. S., director, Raleigh.

Appropriations for fiscal year ending June 30, 1932:

Administration.....	\$16,662
County health activities and epidemiology.....	136,936
Sanitary engineering.....	40,593
Preventive medicine—	
(a) Child hygiene.....	45,595
(b) Health education and vital statistics.....	29,248
Division of laboratories.....	61,250
Printing.....	12,716
Total appropriation.....	352,000

Other sources of revenue: Special fees, \$84,806.

NORTH DAKOTA**Advisory health council:**

Bertha R. Palmer, superintendent of public instruction, ex officio, Bismarck.

Fannie Dunn Quain, M. D., president North Dakota Tuberculosis Association, ex officio, Bismarck.

Arne Oftedal, M. D., Fargo.

Ella Clayton Smyth, Bismarck.

R. S. Towne, D. D. S., Bismarck.

Executive health officer:

*A. A. Whittemore, M. D., State health officer, Bismarck.

Child hygiene and public health nursing:

*Maysil M. Williams, M. D., director, Bismarck.

Bureau of venereal diseases:

*Robert W. Allen, M. D., Bismarck.

Bureau of sanitary engineering:

*A. L. Bavone.

Bureau of vital statistics:

*Violetta Roche, director.

Appropriations for biennial period ending June 30, 1933:**For public health—**

Salary.....	\$7,200
Clerk hire.....	33,600
Postage.....	3,000
Supplies.....	1,500
Furniture and fixtures.....	900
Printing.....	6,000
Miscellaneous.....	1,000
Travel.....	4,000
Card indexing.....	2,000

OHIO**Public health council:**

H. S. Southard, M. D., chairman, Columbus.
 James E. Bauman, secretary.
 G. D. Lummis, M. D.
 C. O. Probst, M. D.
 R. M. Calfee.
 W. I. Jones, D. D. S.

Executive health officer:

*H. S. Southard, M. D., director of health,
 Columbus.

Assistant director of health:

*James E. Bauman.

Division of administration:

*James E. Bauman, chief.
 *C. A. Orrison, chief clerk.

Bureau of publicity—

*Paul Mason, director.

Bureau of local health organization—

*E. R. Shaffer, M. D., chief.

Division of communicable diseases:

*Finley Van Orsdall, M. D., chief.

*T. W. Mahoney, M. D., chief epidemiologist.

Bureau of tuberculosis—

*W. D. Tillson, M. D.

Bureau of venereal diseases—**Bureau of prevention of blindness—****Division of sanitary engineering:**

*F. H. Waring, chief.

Bureau of plumbing inspection—

*A. A. Manchester, chief.

Division of vital statistics:

*Irva C. Plummer, chief.

Division of laboratories:

*Leo F. Ey, chief.

Division of child hygiene:

*A. B. Lippert, M. D., chief.

Bureau of hospitals—

*Clara E. Reeder, R. N., chief.

Bureau of dental hygiene—

*L. G. Bean, D. D. S., chief.

Division of public health nursing:

*Zoe McCaleb, R. N., chief.

Division of industrial hygiene:

*B. E. Neiswander, M. D., chief.

E. R. Hayhurst, M. D., consultant.

Appropriations for 12 months ending December 31, 1929:

Personal services.....	\$260,480
Maintenance.....	88,009
State aid for health districts.....	250,000
Total.....	598,489

Publications issued by health department:

Ohio Health News (semimonthly).

OKLAHOMA**Executive health officer:**

*G. N. Bilby, M. D., State health commissioner,
 Oklahoma City.

Assistant State health commissioner:

*J. P. Folan, Oklahoma City.

Bureau of vital statistics:

*Juanita Johnston Smith, registrar.

Bureau of laboratories:

*Katherine Harris, bacteriologist.

Bureau of maternity and infancy:

*Mrs. I. L. Huff, director.

Bureau of rural sanitation:**Bureau of sanitary engineering:**

*H. J. Darcey, director.

Bureau of public health education:

*Pearl E. Wilson, R. N.

Bureau of epidemiology:

*G. F. Mathews, M. D.

Appropriations for fiscal year ending June 30, 1932:**Administration—**

Commissioner.....	\$4,800
Assistant commissioner.....	2,400
Secretary and stenographer.....	1,800
Bookkeeper.....	2,000
Stenographers (1 at \$1,800, 1 at \$1,500).....	3,300

Bureau of public health education—

Director.....	2,400
Stenographer.....	1,500

Bureau of diagnostic laboratory—

Chemist.....	3,000
Assistant chemist.....	2,400
Bacteriologist.....	3,000
Assistant bacteriologist.....	2,400
Record clerk.....	1,800
Extra help—janitor.....	1,200
Manufacture vaccine.....	2,500

Bureau of sanitary engineering—

Engineer.....	3,000
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Bureau of pure food, drugs, and sanitary inspection—

Supervisor (sanitary engineer).....	2,400
Inspectors (6 at \$1,800 each).....	10,800

Bureau of vital statistics—

Registrar.....	2,400
Assistant registrar.....	1,800
Statistical clerks (3 at \$1,500 each).....	4,500

Bureau of maternity and infancy—

Director.....	3,000
Stenographer.....	1,500
Head nurse.....	2,400
Field nurses (4 at \$1,800 each).....	7,200
Extra help, etc.....	5,000
Printing, office supplies, and communications.....	4,500

Traveling expenses, including motor supplies and motor repairs.....	5,000
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Travel, all departments.....	15,000
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Communication.....	3,000
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Printing.....	3,000
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Office supplies.....	1,000
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Medical supplies.....	9,000
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Office equipment.....	500
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Laboratory equipment.....	900
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Special appropriations unallocated:

Epidemiology, disease prevention.....	5,000
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Rural sanitation and disease control in the rural districts and county health units.....	27,500
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Malaria control.....	10,000
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Total.....	162,900
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OREGON

Board of health:

J. H. Rosenberg, M. D., president, Prineville.
H. H. Foskett, M. D., vice president, Portland.
Frederick D. Stricker, M. D., secretary and
State health officer, Portland.
George E. Houck, M. D., Roseburg.
N. E. Irvine, M. D., Lebanon.
Albert Mount, M. D., Oregon City.
J. P. Brennan, M. D., Pendleton.

Executive health officer:

*Frederick D. Stricker, M. D., secretary and
State health officer, Portland.

Registrar of vital statistics:

*Frederick D. Stricker, M. D., Portland.

Division of child hygiene and public health nursing:

*Minnette C. Twist, R. N., Portland.

Director of laboratory:

*William Levin, D. P. H., Portland.

Appropriations for fiscal year ending December 31,
1931, \$41,667.

Publications issued by health department:

Annual report.
Biennial report.
Pamphlets and posters.
Weekly letter.

PENNSYLVANIA

Department of health:

Advisory health board—

Theodore B. Appel, M. D., chairman.
H. C. Frontz, M. D., Huntingdon.
J. M. Wainwright, M. D., Scranton.
S. R. Haythorn, M. D., Pittsburgh.
C. B. Auel, M. E., Pittsburgh.
Charles F. Mebus, C. E., Glenside.

Sanitary water board—

Theodore B. Appel, M. D., chairman.
Lewis E. Staley, secretary of forests and
waters, Bellefonte.
O. M. Diebler, commissioner of fisheries,
Pleasant Mount.
P. T. Davis, Clearfield.
J. Norman Henry, M. D., Philadelphia.
Elmer A. Holbrook, Pittsburgh.
W. L. Stevenson, chief engineer and secre-
tary, Harrisburg.

Executive health officers—

*Theodore B. Appel, M. D., secretary of
health, Harrisburg.
*J. Bruce McCreary, M. D., deputy secre-
tary of health, Shippensburg.

Sanatoria:

Mont Alto sanatorium—
*R. H. McCutcheon, M. D., medical
director, South Mountain.
Cresson sanatorium—
*T. H. A. Stites, M. D., medical direc-
tor, Cresson.
Hamburg sanatorium—
*Henry A. Gorman, M. D., medical
director, Hamburg.
State hospital for crippled children—
*Francis S. Chambers, M. D.
*L. G. Owens, business manager, Eliza-
bethtown.

Department of health—Continued.

Bureau of communicable diseases—

*J. Moore Campbell, M. D., Harrisburg.

Section of Epidemiology—

*Harold B. Wood, M. D., Harrisburg.
*S. J. Dickey, M. D., Harrisburg.

Section of tuberculosis—

*John B. Critchfield, M. D., Lock
Haven.

Genito-urinary section—

*Edgar S. Everhart, M. D., Lemoyne.

Section of restaurant hygiene—

*Howard M. Haines, Harrisburg.

Bureau of sanitary engineering—

*W. L. Stevenson, C. E., chief engineer,
Harrisburg.

Section of waterworks and sewerage—

*H. E. Moses, Harrisburg.

Section of rural water supplies and bottled
water control—

*Henry P. Drake, Harrisburg.

Section of housing—

*H. F. Bronson, C. E., Harrisburg.

Section of nuisances—

*D. V. Ness, Harrisburg.

Section industrial waste—

*F. E. Daniels, Harrisburg.

Bureau of milk control—

*Ralph E. Irwin, Camp Hill.

Bureau of child health—school control—

*J. Bruce McCreary, M. D.

Field supervisor—

*C. W. Sheldon, M. D., Wellsboro.

Section of school health—

*John G. Ziegler, Lebanon.

Preschool section—

*Mary Riggs Noble, M. D., Harrisburg

Dental hygiene—

*C. J. Hollister, D. D. S., Harrisburg.

Bureau of finance—

*Clinton T. Williams, Harrisburg.

Section of accounts—

*E. J. MacNamara, Philadelphia.

Section of supplies—

*Roy G. Miller, Harrisburg.

Bureau of vital statistics—

*Emlyn Jones, M. D., Johnstown.

Bureau of laboratories—

*John L. Laird, M. D., Philadelphia.

Bureau of drug control—

*James N. Lightner, LL. B., Lancaster.

Bureau of nursing—

Bureau of inspection—

*Geo. A. Steims, York.

Bureau of public health education—

*J. C. Funk, LL. B., Harrisburg.

Appropriations for biennial period
ending May 31, 1933:

General health purposes and maintenance of sanatoria and hospital for crippled children...	\$3,400,000
Sanitary water board.....	225,000
Survey—Waters of Delaware River.....	50,000

Appropriations for biennial period ending May 31, 1933—Continued.

Sanatoria—Continued.

Construction for Mont Alto, Cresson, and Hamburg sana- toria and hospital for crippled children.....	\$513, 223
Anatomical board salaries and general expenses.....	33, 800

Total..... 6, 222, 026

PHILIPPINE ISLANDS

Director of health:

Jacobo Fajardo, M. D., Manila.

Council of hygiene, advisory board to the director of health:

Gervasio Ocampo, M. D., Manila.

José, Albert, M. D., Manila.

Benito Valdes, M. D., Manila.

Eulogio P. Revilla, LL. B., Manila.

Executive officer:

*Jacobo Fajardo, M. D., director of health,
Manila.

Assistant to the director:

*Regino G. Padua, M. D., Manila.

Office of records and finance:

*Mamerto Tianco, P. A., chief, Manila.

Office of property:

*Bonifacio Mencias, M. D., acting chief,
Manila.

Office of vital statistics:

José Guidote, M. D., chief, Manila.

Office of general inspection:

*Rafael Villafranca, M. D., chief, Manila.

Public health education and publicity:

*José P. Bantug, M. D., chief, Manila.

Public health nursing:

*Genara S. Manongdo, R. N., chief, Manila.

Division of communicable diseases:

*Leoncio Lopez Rizal, M. D., chief, Manila.

Division of metropolitan sanitation:

*Eugenio Hernando, M. D., chief, Manila.

Division of hospitals, dispensaries, and labora- tories:

*Eusebio D. Aguilar, M. D., chief, Manila.

Leprosy section—

*Sulpicio Chiyuto, M. D., chief, Manila.

Cullon Leper Colony—

*Vicente Kierulf, M. D., chief.

Division of provincial sanitation:

*Gabriel Intengan, M. D., chief, Manila.

Division of malaria control:

*Cristobal Manalang, M. D., chief.

*Antonio Ejercito, M. D., assistant chief.

Division of sanitary engineering:

*Manuel Mañosa, C. E., chief, Manila.

Appropriations for fiscal year ending

December 31, 1931:

Salaries and wages.....	\$507, 093. 00
Miscellaneous expenses.....	981, 187. 00
Furniture and equipment.....	11, 250. 00

Total..... 1, 499, 530. 00

Appropriations for fiscal year ending December 31, 1931—Continued.

Special expenses—

Continuation of treatment and diagnosis of lepers.....	\$125, 000. 00
Maintenance of regional treat- ment stations, etc.....	71, 200. 00
Aid to specially organized Provinces.....	278, 050. 00
Aid to the Province of Ilocos Sur for the operation, main- tenance, and equipment of the Cervantes hospital.....	10, 000. 00
School of nursing in Baguio...	5, 250. 00
Medicines, medical and surgi- cal supplies for distribution to public school dispen- saries.....	5, 000. 00
General demonstration on a small scale of the practical control of beriberi.....	5, 000. 00
Control of malaria in the regu- larly and specially organized Provinces and municipali- ties and municipal districts.	37, 000. 00
For insular aid for operation and maintenance of provin- cial hospitals.....	153, 392. 00

Total for special expenses..... 689, 892. 00

Less required savings in any item of salaries and wages, miscellaneous expenses, fur- niture and equipment, and special expenses.....	39, 690. 50
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Grand total of appro-
priations..... 2, 149, 741. 50

Publications issued by the Philippine health ser- vice:

Daily Service News.
Weekly comparative epidemiological résumé.
Weekly résumé of births and deaths.
Monthly bulletin.
Annual report.
Service numbered pamphlets.
Reprints (unnumbered pamphlets).
Posters.

PORTO RICO

Department of health:

*A. Fernós Isern, M. D., commissioner of
health, San Juan.

*Ramón J. Sifre, M. D., assistant commis-
sioner, San Juan.

Insular board of health:

R. López Sicardo, M. D., chairman, San Juan.

W. A. Glines, M. D., San Juan.

Fabio Morales Otero, M. D., San Juan.

Ramón M. Suárez, M. D., San Juan.

Donald C. Cook, San Juan.

G. A. Ramírez de Arellano, San Juan.

A. Ortiz Toro, San Juan.

Luis B. de la Vega, M. D., secretary, San Juan.

Division of property and accounts:

*Abelardo Santiago, chief, San Juan.

Division of epidemiology:

*E. Garrido Morales, M. D., epidemiologist, San Juan.

Bureau of charities:

*Ramón Lavandero, M. D., chief, San Juan.

Bureau of general sanitary inspection:

*A. Bou de la Torre, M. D., chief, San Juan.

Bureau of sanitary engineering:

*Octavio Marciano, sanitary engineer, San Juan.

Bacteriological laboratory:

*Oscar Costa Mandry, M. D., director, San Juan.

Chemical laboratory:

*R. del Valle Sárraga, Ph. C., director, San Juan.

Bureau of transmissible diseases:

*Abel de Juan, M. D., chief, San Juan.

Bureau of vital statistics:

*Manuel A. Pérez, chief, San Juan.

Bureau of tuberculosis:

*J. Rodríguez Pastor, M. D., chief, San Juan.

Central X-ray laboratory:

P. Gutiérrez Igaravidez, M. D., director, San Juan.

Division of social service:

*Consuelo Delgado, superintendent, San Juan.

Division: Care and prevention of venereal diseases:

Ernesto Quintero, M. D., specialist, San Juan.

Bureau of malaria:

*Walter C. Earle, M. D., chief, San Juan.

Bureau of rural sanitation:

*J. G. Bajandas, M. D., chief, San Juan.

Bureau of infant hygiene:

*Marta Robert de Romeu, M. D., chief, San Juan.

Bureau of public health units:

*Geo. C. Payne, M. D., chief, San Juan.

Appropriations for the fiscal year ending June 30, 1932:

Office of the commissioner of health.....	\$120,902.44
Bureau of charities.....	504,567.50
Bureau of general sanitary inspection.....	55,280.00
Bureau of sanitary engineering....	19,165.00
Bacteriological laboratory.....	39,875.00
Chemical laboratory.....	20,388.00
Bureau of transmissible diseases..	83,870.00
Bureau of vital statistics.....	17,100.00
Bureau of tuberculosis.....	221,805.00
Division: Care and prevention of venereal diseases.....	11,400.00
Division of social service.....	6,700.00
Bureau of malaria.....	68,956.00
Bureau of rural sanitation.....	95,486.00
Bureau of infant hygiene.....	9,200.00
Public health units.....	252,620.00

Total..... 1,517,314.94

RHODE ISLAND

Public health commission:

Thomas J. McLaughlin, M. D., chairman, Woonsocket.

James H. Prior, M. D., Providence.

Berton W. Storrs, M. D., Portsmouth.

John Champlin, Jr., M. D., Westerly.

Charles H. Holt, M. D., Pawtucket.

Executive health officer:

Lester A. Round, Ph. D., director of public health and State registrar, State Office Building, Providence.

Pathologist:

Lester A. Round, Ph. D., Providence.

Chemist:

Charles L. Poole, Providence.

Appropriations for fiscal year ending June 30, 1932:

Executive department.....	\$50,280
Chemical laboratory.....	17,220
Pathological laboratory.....	31,063
Child welfare.....	24,800
Venereal diseases.....	8,545

Total..... 131,908

SOUTH CAROLINA

Executive committee, board of health:

William Egleston, M. D., chairman, Harts-ville.

Robert Wilson, Jr., M. D., Charleston.

L. D. Boone, M. D., Aiken.

Davis Furman, M. D., Greenville.

E. A. Hines, M. D., Seneca.

W. R. Wallace, M. D., Chester.

J. Lee Carpenter, Ph. G., Greenville.

F. M. Routh, M. D., Columbia.

George Dick, D. D. S., Sumter.

John M. Daniel, attorney general, Columbia.

A. J. Beattie, comptroller general, Columbia.

Executive health officer:

*James A. Hayne, M. D., State health officer, Columbia.

Department of county health units:

*Ben F. Wyman, M. D., director, Columbia.

Bureau of child hygiene:

*Nellie Cunningham, R. N., supervisor of public health nursing, Columbia.

Laboratory department:

*H. M. Smith, M. D., in charge, Columbia.

*J. R. Cain, chief bacteriologist, Columbia.

Bureau of vital statistics:

*C. W. Miller, chief clerk, Columbia.

Bacteriologist and chemist:

F. L. Parker, Jr., M. D., Ph. D., Charleston.

South Carolina Sanatorium:

*Ernest Cooper, M. D., superintendent, Columbia.

Epidemiologist:

*A. H. Hayden, M. D., Columbia.

Sanitary engineer:

*A. E. Legare, C. E., Columbia.

Appropriations for fiscal year ending**December 31, 1931:**

Administrative office.....	\$10,894.00
Control of epidemic diseases.....	47,722.00
Bureau of child hygiene.....	8,906.00
Bureau of vital statistics.....	8,153.00
Laboratory.....	12,708.00
Bureau of rural sanitation.....	50,298.50
Division of sanitary engineering.....	15,591.28
Tuberculosis sanatoria.....	173,034.00
Aid for crippled children.....	12,400.00

Total..... 346,306.78

Publications issued by health department:

Annual report.

Bulletins of various departments.

SOUTH DAKOTA**Board of health:**

H. J. Barton, M. D., president, Watertown.

N. T. Owen, M. D., vice president, Rapid City.

A. C. Clark, M. D., Woonsocket.

H. R. Kenaston, M. D., Bonesteel.

P. B. Jenkins, M. D., superintendent, Waubay.

Executive health officer:

*Park B. Jenkins, M. D., superintendent, Waubay.

Division of vital statistics:

*Park B. Jenkins, M. D., Waubay.

Division of records and accounts:

*Edna Jenkins.

Division of medical licensure:

H. R. Kenaston, M. D.

Laboratories (at Vermillion):

J. C. Ohlmacher, M. D.

Division of child hygiene:

*Florence E. Walker, R. N.

Division of epidemiology:

*A. E. Bostrom, M. D.

Division of sanitary engineering:

*W. W. Towne, B. E.

Appropriations:

	1931-32	1932-33
Salaries and wages.....	\$20,000	\$20,000
Supplies and materials.....	2,500	2,500
Biological products.....	2,000	2,000
Postage, communication, and travel.....	4,000	4,000
Printing, binding, and ad- vertising.....	2,500	2,500
Crippled children.....	2,500	2,500
Dues.....	50	50
Infancy and maternity work.....	7,000	7,000
Rent, light, and power.....	2,160	2,160
Total.....	42,710	42,710

TENNESSEE**Department of public health:****Central administration—**

*E. L. Bishop, M. D., C. P. H., commissioner, Nashville.

County and other local health work—

*W. K. Sharp, jr., M. D., director, Nashville.

Child hygiene and public health nursing—

*H. S. Mustard, M. D., director, Nashville.

Miss M. G. Nisbet, supervising nurse, Nashville.

Health education—

*H. S. Mustard, M. D., director, Nashville.

Dental hygiene—

*H. S. Mustard, M. D., director, Nashville.

Division of vital statistics—

*J. B. Bond, M. D., director, Nashville.

Division of preventable diseases—

*J. A. Crabtree, M. D., C. P. H., director, Nashville.

Tuberculosis control—

*R. S. Gass, M. D., director, Nashville.

Division of laboratories—

*Wm. Litterer, M. D., director, Nashville.

Division of sanitary engineering—

*Roy J. Morton, C. E., director, Nashville.

Appropriation for the fiscal period July 1, 1931, to June 30, 1932—

Central administration—

Commissioner's office..... \$38,400

County and other local health work..... 285,150

Child hygiene and public health nursing..... 110,300

Health education..... 12,400

Dental hygiene..... 9,000

Division of vital statistics..... 35,200

Division of preventable diseases..... 57,000

Tuberculosis control..... 90,000

Division of laboratories..... 67,840

Division of sanitary engineering..... 44,100

Total..... 749,390

Other sources of revenue—

Rockefeller Foundation, Interna-

tional Health..... 27,480

Commonwealth fund..... 57,240

Rosenwald fund..... 32,940

National Tuberculosis Association..... 2,800

U. S. Public Health Service..... 109,020

TEXAS**Board of health:**

A. A. Ross, M. D., president, Lockhart.

J. S. Wooten, M. D., Austin.

C. M. Rosser, M. D., Dallas.

Board of health—Continued.

E. W. Wright, M. D., Bowie.
 Jno. W. Burns, M. D., Cuero.
 J. M. Frazier, M. D., Belton.
 J. C. Anderson, M. D., ex officio member of the
 board, and State health officer, Austin.
 Ralph A. Ericson, D. D. S., San Antonio.
 J. M. Spoons, Wichita Falls.

Executive health officer:

*J. C. Anderson, M. D., State health officer, Austin.

Bureau of child hygiene:

*H. N. Barnett, M. D., director.

Bureau of vital statistics:

*W. A. Davis, M. D., director.

Bureau of laboratories:

*S. W. Bohls, M. D., director.

Bureau of sanitary engineering:

*V. M. Ehlers, C. E., director.

Bureau of foods and drugs:

*E. G. Le May, Ph. G., director.

Appropriations for fiscal years 1931-1933,
 per annum..... \$243,300
 Special malaria fund, per annum..... 25,000
 Special indexing fund (for one year only) 10,000

UTAH**Board of health:**

Joseph R. Morrell, M. D., president, Ogden.
 T. B. Beatty, M. D., secretary, Salt Lake City.
 Joseph H. Peck, M. D., Tooele.
 John M. Wallace, Salt Lake City.
 W. D. Donohoe, M. D., Salt Lake City.
 R. A. Hart, C. E., Salt Lake City.
 Barnet E. Bonar, M. D., Salt Lake City.

Executive health officer:

*T. B. Beatty, M. D., State health commis-
 sioner, Salt Lake City.

Bureau of vital statistics:

*T. B. Beatty, M. D., State registrar.
 *Anna M. Bowen, deputy registrar.

Bureau of child hygiene:

*T. B. Beatty, director.

Sanitary engineer:

*C. O. Pickel.

Bacteriological laboratory:

*E. H. Bramhall, bacteriologist.

Appropriations for two years ending June 30, 1933:

Salaries.....	\$45,108
Office expenses.....	8,833
Travel.....	3,299
Equipment.....	2,000
Child hygiene (to match Federal funds).....	13,000
Total.....	72,240

Publications issued by health department:

Quarterly bulletin.

Biennial report.

VERMONT**Board of health:**

William G. Ricker, M. D., chairman, St.
 Johnsbury.
 Edward J. Rogers, M. D., Pittsford.
 John P. Gifford, M. D., Randolph.

Executive health officer:

*Charles F. Dalton, M. D., secretary, State
 board of health, Burlington.

Laboratory of hygiene:

*Charles F. Whitney, M. D., director, Burlington.

Sanitary engineering:

J. W. Votey, C. E., Burlington.

Sanitary inspector:

*Fred S. Kent, M. D., Burlington.

Division of communicable diseases:

D*Fred S. Kent, M. D., Burlington.

Division of tuberculosis:

*H. W. Slocum, Burlington.

Division of poliomyelitis:

*W. L. Aycock, M. D., research, Burlington.

*Lillian E. Kron, R. N., Burlington.

Division of maternal and infant hygiene:

*Nellie M. Jones, R. N., maternity, infancy,
 and child hygiene nurse.

Appropriations for fiscal year ending June 30, 1931:

Total budget, \$47,000.

Other sources of revenue:

Private donations for study and treatment of
 infantile paralysis.

Publications issued by health department:

Biennial report.

VIRGIN ISLANDS**Executive health officer:**

*R. B. Stafford, M. D., commissioner of health,
 Saint Thomas.

VIRGINIA**Board of health:**

W. T. Graham, M. D., president, Richmond.
 Mrs. W. M. Smith, Purcellville.
 Frank Darling, Hampton.
 J. A. McGuire, M. D., Norton.
 Guy R. Harrison, D. D. S., Richmond.
 George B. Lawson, M. D., Roanoke.
 L. T. Royster, M. D., University.

Executive health officer:

*W. F. Draper, M. D., State health commis-
 sioner, Richmond.

*C. R. Kelley, Ph. D., executive assistant to
 commissioner; in charge of rural sanitation
 and publicity.

Registrar of vital statistics:

*W. A. Plecker, M. D., Richmond.

Epidemiologist:

*H. G. Grant, M. D., Richmond.

Bacteriologist:

*G. F. McGinnes, M. D., Richmond.

Sanitary engineer:

*Richard Messer, C. E., Richmond.

Bureau of child health:

*B. B. Bagby, M. D., director, Richmond.

Director of public health nursing:

*Nannit J. Minor, R. N., Richmond.

Director of mouth hygiene:

*N. Talley Ballou, D. D. S., Richmond.

Director tuberculosis out-patient service:

*Roy K. Flannagan, M. D., Richmond.

Appropriations for the fiscal year ending

June 30, 1932:

Administration.....	\$22,580
Sanitary engineering.....	22,085
Publicity.....	13,450
Town sanitation.....	4,500
Social hygiene.....	2,500
Prevention of tuberculosis.....	65,900
Control of epidemics.....	10,975

Appropriations for the fiscal year ending June 30, 1932—Continued.

Laboratories.....	\$24,340
Promotion of child health.....	57,380
Rural health work.....	95,000
Shellfish inspection and sanitation.....	25,000
Orthopedic treatment.....	25,000
Vital statistics.....	27,570
Collection and publication of marriage and divorce statistics.....	4,005
Prevention of blindness.....	2,300
Tuberculosis sanatoria.....	330,130
Total.....	732,775

Publications issued by health department:
Monthly bulletin.
Annual report.

WASHINGTON

Board of health:

A. E. Stuht, M. D., director of health, chairman.
Clarence A. Smith, M. D., Seattle.
James H. Egan, M. D., Tacoma.
Samuel L. Caldbick, M. D., Everett.
John O'Shea, M. D., Spokane.
H. W. Nightingale, secretary, Seattle.

Executive health officer:

*A. E. Stuht, M. D., State director of health, Seattle.

Epidemiologist:

*A. U. Simpson, M. D., Seattle.

Chief of laboratory:

*A. U. Simpson, M. D., Seattle.

Sanitary engineer:

*H. W. Nightingale, C. E., Seattle.

Registrar:

*H. W. Nightingale, C. E., Seattle.

Division of public health nursing:

*Mary Louise Allen, chief.

Appropriation for two years ending March 31, 1933:

General fund—

Salaries and wages.....	\$50,250
Operations.....	23,050
For maternal and child hygiene.....	8,000
From fisheries fund—	
Salaries and wages.....	10,000
Operations.....	5,000
Tuberculosis hospitals—	
State aid to local sanatoria.....	340,000

WEST VIRGINIA

Public health council:

B. O. Robinson, M. D., president, Parkersburg.
H. A. Barbee, M. D., Point Pleasant.
W. S. Fulton, M. D., Wheeling.
W. E. Neal, M. D., Huntington.
A. H. Hoge, M. D., Bluefield.
R. H. Walker, M. D., Charleston.
W. T. Henshaw, M. D., commissioner of health, Charleston.

Executive health officer:

*W. T. Henshaw, M. D., commissioner of health, Charleston.

Division of sanitary engineering:

*Ellis S. Tisdale, chief engineer, Charleston.
*John B. Harrington, assistant engineer, Charleston.
*H. K. Gidley, assistant engineer, Charleston.

Division of vital statistics:

*Carl F. Raver, M. D., M. P. H., Charleston.

Division of child hygiene:

*R. H. Paden, M. D., M. P. H., director, Charleston.

*Edna M. Hardsaw, field advisory nurse, Charleston.

Division of preventable diseases:

*W. T. Henshaw, M. D., acting director, Charleston.

Bureau of venereal diseases:

*David Littlejohn, A. A. surgeon, U. S. P. H. S., director, Charleston.

*Ada C. McDermott, associate director, Charleston.

Division of rural sanitation:

*David Littlejohn, A. A. surgeon, U. S. P. H. S., director, Charleston.

Hygienic laboratory:

*Elizabeth I. Parsons, director, Charleston.

*Margaret E. Riffe, laboratory technician, Charleston.

*J. Roy Monroe, technician, Charleston.

*Mark C. Harp, technician, Charleston.

*Dorothy C. Kuykendall, technician, Charleston.

Bureau of public health education:

*Dorothea Campbell, director, Charleston.

Appropriations for fiscal year ending June 30, 1932:

For general use.....	\$110,000
Salary of commissioner.....	4,800

Total..... 114,800

Other sources of revenue:

Expenses of cooperative work with the Federal Government.

Expenses of cooperative rural health work with the Rockefeller Foundation.

Publications issued by health department:

Quarterly bulletin.

Annual report.

WISCONSIN

Board of health:

G. Windesheim, M. D., president, Kenosha.
Joseph Dean, M. D., vice president, Madison.
J. J. Seelman, M. D., Milwaukee.
Mina B. Glasier, M. D., Bloomington.
Stephen Cahana, M. D., Milwaukee.
H. H. Ainsworth, M. D., Birchwood.
C. A. Harper, M. D., State health officer, Madison.

Executive health officer:

*C. A. Harper, M. D., State health officer, Madison.

Assistant State health officer:

*G. W. Henika, M. D., Madison.

Deputy State health officers:

*W. J. Miller, M. D., Madison.
*G. E. Hoyt, M. D., Milwaukee.
*V. A. Gudex, M. D., Oshkosh.
*F. P. Daly, M. D., Eau Claire.
*R. L. Frisbie, M. D., Rhinelander.

Bureau of vital statistics:

*C. A. Harper, M. D., State registrar, Madison.

*L. W. Hutchcroft, statistician, Madison.

Bureau of communicable diseases:

*H. M. Guilford, M. D., director, Madison.

Bureau of sanitary engineering:

- *L. F. Warrick, State sanitary engineer, Madison.
- *O. J. Muegge, assistant sanitary engineer, Madison.
- *E. J. Beatty, assistant sanitary engineer, Madison.
- *J. M. Holderby, assistant sanitary engineer, Madison.
- *E. J. Tully, chemical engineer, Madison.

Bureau of education:

- *John Culnan, acting director, Madison.

Bureau of child welfare:

- *Charlotte Calvert, M. D., acting director, Madison.
- *Eleanor Hutchinson, M. D., child-health physician, Madison.
- *Margaret Nelson, M. D., child-health physician, Madison.
- *Elizabeth Taylor, M. D., child-health physician.
- *Helen Thayer, organizer of infant hygiene courses, Madison.

Bureau of public-health nursing:

- *Cornelia Van Kooy, R. N., director, Madison.
- *Edith L. Olson, R. N., field advisory nurse, Madison.
- *Ada Newman, R. N., field advisory nurse, Madison.
- *Martha Jenny, R. N., field advisory nurse, Madison.

Bureau of nursing education:

- *Adda Eldredge, R. N., director, Madison.

Bureau of plumbing and domestic sanitary engineering:

- *Frank R. King, State domestic sanitary engineer, Madison.

Bureau of social hygiene:

- *H. M. Gullford, M. D., director, Madison.
- *Aimee Zillmer, lecturer, Madison.
- *D. M. Warner, lecturer, Madison.

Laboratory service:

- *W. D. Stovall, M. D., director, State laboratories, Madison.
- *M. S. Nichols, chemist, State laboratory, Madison.
- *Anna Brandsmark, director, branch laboratory, Rhinelander.
- *Mildred Englebert, director, cooperative laboratory, Beloit.

Laboratory service—Continued.

- *Marjorie Bates, director, cooperative laboratory, Oshkosh.
- *Henry Miller, director, cooperative laboratory, Kenosha.
- *Josephine Foote, director, cooperative laboratory, Wausau.
- *Martha Thompson, director, cooperative laboratory, Superior.
- *Clarissa McFetridge, director, cooperative laboratory, Green Bay.

Appropriations for fiscal year ending June 30, 1930:

General administration..... \$164,570

Licensing—

Embalmers.....	6,364
Hotels and restaurants.....	32,846
Barbers.....	19,228
Plumbers.....	19,214
Beauty parlors.....	18,357
Nurses.....	19,806

(All monies received as license fees revert directly to the State general fund and the above amounts are appropriated for the various departments' use in each field.)

Bureau of child welfare and public health nursing.....	51,000
Enforcement of medical practices act.....	5,000

Total..... 336,415

Publications issued by health department:

Quarterly bulletin.

Biennial report.

WYOMING**Board of health:**

- Albert B. Tonkin, M. D., president, Riverton.
- B. V. McDermott, M. D., vice president, Hanna.
- William H. Roberts, M. D., Sheridan.
- W. H. Hassed, M. D., secretary and executive officer, Cheyenne.
- Galen A. Fox, M. D., Cheyenne.

Executive health officer:

- *W. H. Hassed, M. D., State health officer, Cheyenne.

Appropriations for biennial period ending Mar. 31, 1933:

State board of health.....	\$11,000
Salary of secretary.....	8,000
Maternal and infant welfare.....	7,500
Bureau of vital statistics.....	3,500
Total.....	30,000

CITY HEALTH OFFICERS, 1931**Directory of Those in Cities of 10,000 or More Population**

Directories of the city health officers in the cities of the United States having a population of 10,000 or more have been published in the Public Health Reports¹ for each year from 1916 to 1930 for the information of health officers and others interested in public-health activities. These directories have been compiled from data furnished by the health officers. The cities included in this directory

¹ Reprints Nos. 346, 416, 494, 539, 590, 702, 767, 876, 930, 1025, 1103, 1177, 1257, 1333, and 1426 from the PUBLIC HEALTH REPORTS.

are those having populations of 10,000 or more according to the 1930 census.

The asterisk (*) indicates that the officer before whose name it appears has been reported to be a "whole-time" health officer. For this purpose a "whole-time" officer is defined as "one who does not engage in the practice of medicine or in any other business, but devotes all his time to official duties."

City	Name of health officer	Official title
Alabama:		
Anniston	*Robert V. Hazlewood, D. V. M.	Director of sanitation.
Bessemer	*J. D. Dowling, M. D.	County and city health officer.
Birmingham	*H. C. McRee, M. D.	County health officer.
Decatur	*F. G. Granger, M. D.	Do.
Dothan		
Fairfield		
Florence	*W. D. Hubbard, M. D.	City and county health officer.
Gadsden	*C. L. Murphree, M. D.	Do.
Huntsville	*W. C. Hatchett, M. D.	County health officer.
Mobile	*Charles A. Mohr, M. D.	Do.
Montgomery	*James L. Bowman, M. D.	Do.
Phenix	Seth J. Floyd, M. D.	City physician.
Selma	*L. T. Lee, M. D.	City and county health officer.
Tuscaloosa	*A. A. Kirk, M. D.	Do.
Arizona:		
Phoenix	Harry J. Felch, M. D.	City health officer.
Tucson	*Lewis H. Howard, M. D.	Director Pima County health unit.
Arkansas:		
Blytheville	Isaac R. Johnson, M. D.	City health officer.
El Dorado	Fergus O. Mahony, M. D.	Do.
Fort Smith	*J. E. Johnson, M. D.	Field agent, United States Public Health Service.
Hot Springs	*James F. Merritt, M. D.	Medical director.
Jonesboro	Ralph M. Sloan, M. D.	City health officer.
Little Rock	C. R. Moon, M. D.	Do.
North Little Rock	James A. Summers, M. D.	Health officer.
Pine Bluff	*George A. Hays, M. D.	County medical director.
Texarkana	Harry E. Murry, M. D.	City physician.
California:		
Alameda	Ralph W. Sanders, M. D.	Health officer and city physician.
Alhambra	*S. J. Stewart, M. D.	District health officer.
Anaheim	*Kenneth H. Sutherland, M. D.	County health officer.
Bakersfield	P. J. Cuneo, L.L. B. M. D.	City health officer.
Berkeley	*Frank L. Kelly, M. D., Dr. P. H.	Health officer.
Beverly Hills	Charles F. Nelson, M. D.	Do.
Brawley	John L. Parker, M. D.	Do.
Burbank	T. H. Ransom, M. D.	Do.
Burlingame	Matthew F. Desmond, M. D.	Burlingame health officer.
Compton	*J. L. Pomeroy, M. D.	County health officer.
Eureka	W. J. Quinn, M. D.	Health officer and city physician.
Fresno	C. Mathewson, M. D.	City health officer.
Fullerton	*K. H. Sutherland, M. D.	County health officer.
Glendale	*D. E. Smallhorst, M. D.	District health officer.
Huntington Park	*George M. Malkin, M. D.	Do.
Inglewood	*Henry C. Smiley, M. D.	Do.
Long Beach	*G. E. McDonald, M. D.	City health officer.
Los Angeles	*George Parrish, M. D.	Health officer.
	*George M. Stevens, M. D.	Epidemiologist and first assistant health officer.
Divisional directors:		
	*G. F. Schmelzel, M. D.	Medical director.
	*Harry Cohn, M. D.	Director of tuberculosis.
	*Agnes M. Talcott.	Director of nurses.
	*C. B. Leasure.	Chief clerk.
	*F. W. Peterson.	Director of vital statistics.
	*John Carman.	Chief chemist.
	*Mona Bettin, M. D.	Chief bacteriologist.
	*F. D. Sweger.	Director of housing and sanitation.
	*William Velt, D. V. M.	Director of milk and meat inspection.
	*H. H. Matthieson.	Sanitary engineer.
	*A. M. Rogers, M. D.	Director, venereal clinic (male).
	*Emily F. Balcom, M. D.	Director, venereal clinic (female).
	*Lyle McNeile, M. D.	Director, maternity and child hygiene division.
	*C. K. Stewart.	Director of rodent division.
	*J. M. Cain.	Director of quarantine and morbidity divisions.
Modesto	Harold Powers Muller, M. D.	City health officer.

City	Name of health officer	Official title
California—Continued.		
Monrovia.....	*J. M. Furstman, M. D.....	District health officer.
Oakland.....	Mark L. Emerson, M. D.....	Health officer and city physician.
Ontario.....	Calvert L. Emmons, M. D.....	Health officer.
Palo Alto.....	*Louis Olsen, S. E.....	Do.
Pasadena.....	*J. D. Dunshee, M. D.....	Do.
Pomona.....	*Eugene F. Fontaine, M. D.....	District health officer.
Redlands.....	Harold G. Gentry, M. D.....	Secretary, board of health.
Richmond.....	Charles Robert Blake, M. D.....	Commissioner of health.
Riverside.....	*William B. Wells, M. D.....	Do.
Sacramento.....	*Herbert F. True, M. D.....	City health officer and registrar.
Salinas.....	*Miss Marie K. Fidel, P. H. N.....	City health officer.
San Bernardino.....	W. W. Fenton, M. D.....	Do.
San Buenaventura.....		
San Diego.....	*Alex. M. Lesem, M. D.....	Health officer.
San Francisco.....	*Jacques P. Gray, M. D.....	Acting health officer and local registrar.
Division of sanitation (includes epidemiological and disinfection).	*Jacques P. Gray, M. D.....	Epidemiologist.
Dairy, milk, and food division (includes industrial division).	Thomas P. Lydon.....	Chief of division.
Meat and market division.	Carl G. Hansen.....	Do.
Housing division.	Homer P. Thyle.....	Do.
Plumbing division.	William D. Hobro.....	Do.
Child-welfare division (includes social service).	Eleanor Stockton, P. H. N.....	Director, field nursing.
School-health division.....	*Paul S. Barrett, M. D.....	Acting director of child hygiene.
Dental division.....	Robert Grosso, D. D. S.....	Chief dentist.
Psychological division.....	Olga Bridgman, M. D.....	Psychologist.
Chest clinic division (tuberculosis).	W. R. P. Clark, M. D.....	Director.
Social-hygiene division.....	R. W. Burlingame, M. D.....	Chief clinician.
Bacteriological division.....	Anna D. MacRae, M. D.....	Director.
Chemical laboratory.....	Clinton Davis.....	Chief chemist.
Auditing division.....	Percy R. Hennessy.....	Auditor.
San Francisco Hospital.....	Leon M. Wilbor, M. D.....	Superintendent.
Laguna Honda Home.....	Charles M. Wollenberg.....	Do.
Emergency service.....	Edmund Butler, M. D.....	Chief surgeon.
San Jose.....	*Henry C. Brown, M. D.....	Health officer.
San Leandro.....	L. Michael, M. D.....	City health officer.
San Mateo.....	*W. C. McLean, D. V. M.....	Health officer and dairy inspector.
Santa Ana.....	*K. H. Sutherland, M. D.....	County health officer.
Santa Barbara.....	*William H. Eaton, M. D.....	Health officer.
Santa Cruz.....	John T. Harrington, M. D.....	City health officer.
Santa Monica.....	*Wm. F. Reasner, M. D.....	District health officer.
Santa Rosa.....	*E. J. Helgren, B. S. Chem.....	Health officer and milk inspector.
South Gate.....	*George M. Malkin, M. D.....	District health officer.
South Pasadena.....	E. J. Johnston, M. D.....	Health officer.
Stockton.....	*John J. Sippy, M. D.....	District health officer.
Vallejo.....	E. A. Peterson, M. D.....	City health officer.
Whittier.....	*F. G. Crandall, M. D.....	District health officer.
Colorado:		
Boulder.....	Carl H. Graf, M. D.....	City health officer.
Colorado Springs.....	O. R. Gillett, M. D.....	Do.
Denver.....	*Fred W. Bailey.....	Manager of health and charity.
Fort Collins.....	T. C. Taylor, M. D.....	Health officer.
Grand Junction.....	E. H. Munro, M. D.....	City physician.
Greeley.....	O. E. Benell, M. D.....	City health officer.
Pueblo.....	*W. E. Buck, M. D.....	Chief, department of health.
Trinidad.....	Charles O. McClure, M. D.....	City physician.
Connecticut:		
Ansonia.....	William H. O'Neill, M. D.....	Health officer.
Bridgeport.....	*William F. Wild, C. F. H., M. D.....	Do.
Bristol.....	B. B. Robbins, M. D.....	City health officer.
Danbury.....	E. J. S. Scofield, M. D.....	Health officer.
Derby.....	Thomas F. Plunkett, M. D.....	Do.
East Hartford.....	Francis Wellington Brecker, M. D.....	Do.
Enfield.....	Frank F. Simonton, M. D.....	Do.
Fairfield.....	*Lawrence E. Poole, M. D., Dr. P. H.....	Health officer and school physician.
Groton.....	Frank W. Hewes, M. D.....	Borough health officer.
Hamden.....	George H. Joslin, M. D.....	Superintendent of health.
Hartford.....	*Charles Porter Botsford, M. D.....	Superintendent, board of health, and registrar.
Manchester.....	D. C. Y. Moore, M. D.....	Chairman, board of health.
Meriden.....	Joseph A. Cooke, M. D.....	Health officer.
Middletown.....	John H. Mountain, D. D. S., M. D.....	Do.
Milford.....		
Naugatuck.....		
New Britain.....	*Louis J. Dumont, M. D.....	Superintendent of health.

City	Name of health officer	Official title
Connecticut—Continued.		
New Haven.....	*John L. Rice, M. D.	Health officer.
New London.....	*Benjamin N. Pennell, D. V. S.	Do.
Norwalk.....		
Norwich.....	Harrison Gray, M. D.	City and town health officer.
Shelton.....		
Stamford.....	*Raymond D. Fear, M. D., Dr. P. H.	Health commissioner.
Stonington.....	D. Edward Taylor, M. D.	Health officer.
Stratford.....	De Ruyter Howland, M. D.	Town health officer.
Torrington.....		
Wallingford.....		
Waterbury.....	*Edward J. Godfrey, M. D.	City health officer.
West Hartford.....	L. A. Cushman, M. D.	Health officer.
West Haven.....	*C. A. Bevan, M. D.	Do.
Willimantic.....	Nathan Spector, M. D.	City health officer.
Delaware:		
Wilmington.....		
District of Columbia:		
Washington.....	*William C. Fowler, M. D.	Health officer.
	*Edward J. Schwartz, M. D.	Assistant health officer.
	*Arthur G. Cole	Chief clerk and deputy health officer.
Bureau of preventable diseases.	*James G. Cumming, M. D.	Director.
Medical inspection of schools.	*Joseph A. Murphy, M. D.	Do.
Food inspection.....	*Reid R. Ashworth, D. V. S.	Do.
Sanitary inspection.....	*J. Frank Butts, LL. B.	Do.
Vital statistics.....	*John H. Milligan	Do.
Chemical laboratory.....	*John B. Reed	Do.
Bacteriological laboratory.....	*John E. Noble	Do.
Serological laboratory.....	*Jesse P. Porch, D. V. M.	Do.
Microanalytical laboratory.	*Edwin R. Donaldson	Do.
Child welfare and hygiene service.	*Hugh J. Davis, M. D.	Do.
Pound.....	*Walter R. Smith	Poundmaster.
Florida:		
Daytona Beach.....	*Peter Garside, M. D. C.	City health officer and milk inspector.
Gainesville.....		
Jacksonville.....	*N. A. Upchurch, M. D.	Health officer.
Key West.....	H. C. Galey, M. D.	City health officer.
Lakeland.....	George C. Overstreet, M. D.	City physician and health officer.
Miami.....	*George N. MacDonell, M. D.	Chief, division of health.
Orlando.....	Sylvan McElroy, M. D.	City health officer.
Pensacola.....	William D. Nobles, M. D.	City health officer and physician.
St. Augustine.....	Herbert E. White, M. D.	City health officer.
St. Petersburg.....	*W. W. Harden, M. D.	Health officer and city physician.
Sanford.....	J. N. Tolar, M. D.	Health officer.
Tallahassee.....	*L. J. Graves, M. D.	Director, county health unit.
Tampa.....	*J. R. McEachern, M. D.	City health officer.
West Palm Beach.....	W. E. Van Landingham, M. D.	City health officer and city physician.
Georgia:		
Albany.....	*Hugo Robinson, M. D.	County commissioner of health.
Athens.....	*Thomas H. Johnston, M. D., Dr. P. H.	Health commissioner.
Atlanta.....	*John Payson Kennedy, M. D.	City health officer.
Augusta.....	Eugene E. Murphey, M. D.	Health officer.
Brunswick.....	*H. L. Akridge, M. D., D. P. H.	Commissioner of health.
Columbus.....		
Decatur.....	H. Homer Allen, M. D.	City health officer.
Griffin.....	*William C. Humphries, M. D.	Commissioner of health.
Lagrange.....		
Macon.....	*J. D. Applewhite, M. D.	Health officer.
Rome.....	*B. V. Elmore, M. D.	Commissioner of health.
Savannah.....	*Victor H. Bassett, M. D.	City health officer.
Thomasville.....	*H. E. Jenkins, M. D., M. S. P. H.	County health commissioner.
Valdosta.....	*Gordon T. Crozier, M. D., Dr. P. H.	City health officer.
Waycross.....	*George E. Atwood, M. D., Dr. P. H.	Commissioner of health.
Idaho:		
Boise.....	*W. H. Rhodes	Health officer.
Pocatello.....		
Illinois:		
Alton.....	A. P. Robertson, M. D.	Health commissioner.
Aurora.....	George W. Haan, M. D.	Health commissioner and registrar.
Belleville.....	B. H. Fortuondo, M. D.	Public health officer.
Berwyn.....	*P. E. Wright, M. D.	Health director.
Bloomington.....		
Blue Island.....	*L. A. Burkhardt	Commissioner of health.
Brookfield.....	Walter E. Baus	Health officer.
Cairo.....	C. L. Weber, M. D.	Do.

City	Name of health officer	Official title
Illinois—Continued.		
Calumet.....	*E. S. O'Brien, M. D., Dr. P. H.	Health commissioner.
Canton.....	C. J. Johnston, M. D.	President, board of health.
Centralia.....	H. E. Wilson, M. D.	Health officer.
Champaign.....	C. George Appelle, M. D.	City health officer.
Chicago.....	*Herman N. Bundesen, M. D.	Commissioner of health.
	H. O. Jones, M. D.	Assistant health commissioner.
	Isaac D. Rawlings, M. D.	Chief of bureau.
Bureau of communicable diseases.....		
Bureau of child welfare.....	Henry C. Niblack, M. D.	Do.
Bureau of dental hygiene.....	Lon W. Morrey, D. D. S.	Do.
Bureau of laboratories and research.....	F. O. Tonney, M. D.	Do.
Bureau of hospitals.....	Archibald L. Hoyne, M. D.	Do.
Bureau of sanitary engineering.....	Joel I. Connolly.	Do.
Bureau of vital statistics.....	M. O. Heckard, M. D.	Do.
Bureau of dairy products.....	Henry C. Becker, M. D. V.	Do.
Bureau of food inspection.....	J. P. Killecourse.	Do.
Bureau of inspection service.....	William H. Riley.	Acting chief of bureau.
Chicago Heights.....	A. H. Pannenberg, M. D.	Commissioner of health.
Cicero.....	J. J. Hood, M. D.	Health commissioner.
Danville.....	Elmer B. Cooley, M. D.	Do.
Decatur.....	*Charles Raimor Smith, M. D.	Director of public health.
East Moline.....	J. Henry Fowler, M. D.	Health officer.
East St. Louis.....	*Albert P. Lauman.	Health commissioner.
Elgin.....	*A. L. Mann, M. D.	Executive officer.
Elmhurst.....	T. Franklin James M. D.	Commissioner of health.
Elmwood Park.....	*Mrs. Laura Arney.	Do.
Evanston.....	*John W. H. Pollard, M. D.	Do.
Forest Park.....		
Freeport.....	James A. Poling, M. D.	Health commissioner.
Galesburg.....	E. D. Wing, M. D.	Do.
Granite City.....	L. D. Darner, M. D.	Do.
Harrisburg.....	Charles Walden, M. D.	Health officer.
Harvey.....	M. R. R. Morse, M. D.	Do.
Highland Park.....		
Jacksonville.....	J. H. Spencer, M. D.	Do.
Joliet.....	Lloyd B. Andrew, M. D.	Health commissioner.
Kankakee.....	*C. K. Smith, M. D.	Health officer.
Kewanee.....	E. N. Heflin, M. D.	Commissioner of health.
La Grange.....	J. W. Carr, M. D.	Health officer.
La Salle.....	*Arlington Ailes, M. D., C. P. H.	Health commissioner.
Lincoln.....	*Willard A. Comstock.	Health officer.
Mattoon.....	J. G. Baker, M. D.	Health commissioner.
Maywood.....	R. L. Reynolds, M. D.	Do.
Melrose Park.....	P. B. Klonka, M. D.	Do.
Moline.....	E. A. Edlen, M. D.	City physician.
Mount Vernon.....		
Oak Park.....	Frank S. Needham, M. D.	Commissioner of health.
Ottawa.....	E. P. Hatheway, M. D.	Health officer.
Park Ridge.....	R. F. Olmstead, M. D.	City physician.
Pekin.....	Nelson A. Wright, Jr., M. D.	City health officer.
Peoria.....	*E. S. Gillespie, M. D.	Commissioner of health.
Quincy.....	*H. O. Collins, M. D.	Public health officer.
Rock Island.....	Ralph Dart, M. D.	Commissioner of health.
Rockford.....	*N. O. Gunderson, M. D.	Do.
Springfield.....	C. W. Milligan, M. D.	Superintendent of health.
Sterling.....	Walter I. Carolus, M. D.	Health officer.
Streator.....	Theresa Jennings, M. D.	President, board of health.
Urbana.....	*George F. Way, M. D.	Health officer.
Waukegan.....	John D. Foley, M. D.	Health commissioner.
West Frankfort.....		
Wilmette.....	W. W. Hawkins, M. D.	Health commissioner.
Winnetka.....	*H. A. Orvis, M. D.	Health officer.
Indiana:		
Anderson.....	E. M. Conrad, M. D.	Secretary, board of health.
Bedford.....	*Charles Blackburn.	Health commissioner.
Bloomington.....	Russell A. DeMotte, M. D.	Secretary, board of health.
Connorsville.....	H. W. Smelser, M. D.	Health officer.
Crawfordsville.....	Fred N. Dougherty, M. D.	Secretary, board of health.
East Chicago.....	Frank Henry Mervis, Ph. G., M. D.	Do.
Elkhart.....	Ivan J. Markel, M. D.	Do.
Elwood.....	Thomas S. Owen, M. D.	City health officer.
Evansville.....	L. E. Fritsch, M. D.	Secretary, board of health.
Fort Wayne.....	Carl G. Miller, M. D.	Health commissioner.
Frankfort.....	C. A. Zinn, M. D.	Secretary, board of health.
Gary.....	Walter M. Behn, M. D.	Do.
Goshen.....	G. A. Whippy, M. D.	City health officer.
Hammond.....	J. A. Chevigny, M. D.	Health commissioner.
Huntington.....		
Indianapolis.....	*H. G. Morgan, M. D.	Do.
Jeffersonville.....	Samuel L. Adair, M. D.	Health officer.

City	Name of health officer	Official title
Indiana—Continued.		
Kokomo	T. C. Cochran, M. D.	Secretary, board of health.
La Fayette	M. M. Lalry, M. D.	Do.
La Porte	Jon Nelson Kelly, M. D.	Health officer.
Logansport	*Louis P. Deuner	Health inspector.
Marion	L. H. Eshleman, M. D.	Secretary, board of health.
Michigan City	Nelle C. Reed, M. D.	Do.
Mishawaka	M. D. Wygant, M. D.	Do.
Muncie	John H. Williams, M. D.	Do.
New Albany	Anna I. McKamy, Ph. B., M. D.	Do.
Newcastle	Walter Moses Stout, M. D.	Do.
Peru	W. H. Wagoner, M. D.	Do.
Richmond	M. F. Johnston, M. D.	Do.
Shelbyville	Walter C. McFadden, M. D.	Do.
South Bend	John B. Berteling, M. D.	Do.
Terre Haute	John E. Dailey, M. D.	Do.
Vincennes	Robert G. Moore, M. D.	Do.
Whiting	Bryce B. Reeve, M. D.	Do.
Iowa:		
Ames	C. A. Aplin, M. D.	Health officer.
Boone	Wm. Woodburn, M. D.	Do.
Burlington	*Carl F. Jordan, M. D., C. P. H.	Medical director, county health unit.
Cedar Rapids	B. G. Broghammer, M. D.	Health officer and city physician.
Clinton	Frank A. Hohenschuh, M. D.	Do.
Council Bluffs	D. C. Hankey, M. D.	City health officer.
Davenport	*E. O. Ficke, M. D.	Director.
Des Moines	*Harley L. Saylor, M. D.	Health commissioner.
Dubuque	W. J. Connell, M. D., M. P. H.	Director of health.
Fort Dodge	*E. S. Welch	Sanitary police.
Fort Madison		
Iowa City		
Keokuk	John H. Wilson, M. D.	Physician, board of health.
Marshalltown	M. U. Chesire, M. D.	Health officer.
Mason City	C. E. Dakin, M. D.	Director of health and sanitation.
Muscatine	Rodney M. Arey, M. D.	City health physician.
Newton	Sylvester E. Hinshaw, M. D.	Health officer.
Oskaloosa	Edward Marsh Williams, M. D.	Health officer and city bacteriologist.
Ottumwa		
Sioux City	*W. S. Petty, M. D.	Director, county health unit, field agent, U. S. Public Health Service.
Waterloo	Joseph E. Ridenour, M. D.	Health officer.
Kansas:		
Arkansas City	B. C. Geeslin, M. D.	Chairman, board of health.
Atchison	Chas. W. Robinson, M. D.	City and county health officer.
Chanute	James A. Butin, M. D.	City health officer.
Coffeyville	A. Boese, M. D.	City physician and health officer.
Dodge City	C. L. Hooper, M. D.	City physician.
Eldorado	*Tom A. Jackson	Food, drug, dairy, and sanitary inspector.
Emporia	*J. S. Fulton, M. D.	Field agent, U. S. Public Health Service.
Fort Scott	C. L. Mosley, M. D.	City health officer.
Hutchinson	Guy R. Walker, M. D.	City physician.
Independence	Stephen Platt, M. D.	Health officer.
Kansas City	*Schubert David Henry, M. D.	Director of health.
Lawrence	E. R. Keith, M. D.	City health officer.
Leavenworth	A. L. Suwalsky, M. D.	City physician.
Manhattan	J. R. Mathews, M. D.	County health officer.
Newton	F. G. Bartlet, M. D.	Do.
Parsons	M. C. Ruble, M. D.	City physician and health officer.
Pittsburg	C. Mart Montee, M. D.	City health officer.
Salina	S. T. Blades, M. D.	Health officer.
Topeka	*Aurel Goodwin, M. D.	City health officer.
Wichita	*R. E. Hobbs, M. D.	Director of public welfare.
Kentucky:		
Ashland	*Robert D. Higgins, M. D.	Director of health, Field agent, U. S. Public Health Service.
Bowling Green	*B. S. Rutherford, M. D.	Health officer.
Covington	James P. Riffe, M. D.	Do.
Fort Thomas	Frank H. Southgate, M. D.	Do.
Frankfort	C. T. Coleman, M. D.	City health officer.
Henderson	*Robert K. Galloway, M. D., M. P. H.	County health officer.
Hopkinsville	Philip E. Haynes, M. D.	City health officer.
Lexington	*Charles H. Voorhies, M. D.	Health officer.
Louisville	*Clarence H. Harris, M. D.	Director of health.
Middlesboro	*Millard D. Hoskins, M. D.	County health officer.
Newport	John Todd, M. D.	City health officer.
Owensboro	*Geo. L. Thompson, M. D.	Director of health.
Paducah	E. B. Willingham, M. D.	Acting health officer.
Louisiana:		
Alexandria	J. A. Packer, M. D.	President, board of health.
Baton Rouge	T. Jeff. McHugh, M. D.	City health officer.
Bogalusa	J. H. Slaughter, M. D.	Do.
Lafayette	Milton R. Cushman, M. D.	Health officer.

City	Name of health officer	Official title
Louisiana—Continued.		
Lake Charles	H. B. White, M. D.	President, board of health.
Monroe	D. I. Hirsch, M. D.	City health officer.
New Orleans	*William H. Robin, M. D.	Superintendent of public health.
Shreveport	*J. H. Cannon, M. D.	President, city board of health.
Maine:		
Auburn	E. Leathers, M. D.	City health officer.
Augusta	George A. Coombs, M. D.	Health officer.
Bangor	*H. D. McNell, M. D.	Local health officer.
Bath	H. B. Duce, D. O.	City health officer.
Biddeford	*John W. Mahoney	Local health officer.
Lewiston	*Robert J. Wiseman, Jr., M. D.	Health officer.
Portland	*Thomas Tetreau, M. D.	City health officer.
Rumford	*Thomas Stone Burr, M. D.	Local health officer.
Sanford	*W. H. Kelly, M. D.	Health officer.
South Portland	Waldo T. Skillin, M. D.	Do.
Waterville	*Arthur R. Daviau, M. D.	Do.
Westbrook	Patrick H. Welch	Local health officer.
Maryland:		
Annapolis	Joseph C. Joyce, M. D.	Health officer.
Baltimore	*C. Hampson Jones, M. D.	Commissioner of health and registrar of vital statistics.
	*J. Frederick Hempel, M. D.	Assistant commissioner of health.
	*V. L. Ellicott, M. D.	Epidemiologist.
	*C. Leroy Ewing	Director.
	*R. S. Craig	Do.
Bureau of bacteriology		
Bureau of chemistry and food		
Bureau of meat inspection	*William Brenner, D. V. S.	Do.
Bureau of communicable diseases	*Ferdinand O. Reinhard, M. D.	Do.
Bureau of sanitation	*George J. Fitch	Do.
Bureau of nursing	*Mrs. J. B. Laib	Do.
Bureau of child welfare	*William H. F. Warthen, M. D.	Do.
Bureau of vital statistics	*Howard A. Moore	Chief.
Bureau of hospitals	*Myron G. Tull, M. D.	Director.
Cumberland	*Harvey H. Weiss	Health officer and registrar of vital statistics.
Frederick	*E. C. Kefauver, M. D.	City and county health officer.
Hagerstown	*W. R. Cameron, M. D.	Do.
Salisbury	*Seth H. Hurdle, M. D.	Deputy State health officer.
Massachusetts:		
Adams	Katherine M. Gavin	Clerk, board of health.
Amesbury	Clarence S. Morse	Agent, board of health.
Arlington	*William H. Bradley	Do.
Athol	Marion B. Sibley, M. D.	Secretary, board of health.
Attleboro	William O. Hewitt, M. D.	Health officer.
Belmont	*Thomas F. Harris	Do.
Beverly	*Alonzo O. Woodbury	Agent, board of health.
Boston	*Francis X. Mahoney, D. V. M., M. D.	Health commissioner.
Divisions—		
Medical	*M. Victor Safford, M. D.	Deputy commissioner.
Communicable diseases	*Frederick J. Bailey, M. D.	Do.
Bacteriological laboratory	*Karl R. Bailey, M. D.	Do.
Food	*P. H. Mullooney, D. V. M.	Do.
Child hygiene	Charles F. Wilinsky, M. D.	Do.
Sanitary	*Thomas J. Donnellon	Do.
Tuberculosis	*George O'Donnell, M. D.	Do.
Vital statistics	*Joseph W. Monahan	Do.
Braintree	*Harry F. Vinton, sr.	Agent, board of health.
Brockton	Joseph H. Lawrence, M. D.	Health officer.
Brookline	Francis Parkman Denny, M. D.	Do.
Cambridge	S. B. Kelleher, M. D.	Medical inspector.
Chelsea	*John F. Welch	Health officer.
Chicopee	*Gertrude M. DeWitt	Agent, board of health.
Clinton	*Frederick E. Murphy	Do.
Danvers	*Hugo Nappe, R. N.	Health officer.
Dedham		
Easthampton	C. C. Buckner	Agent, board of health.
Everett	*William F. Hogan	Do.
Fairhaven	C. E. P. Thompson, M. D.	Board of health physician.
Fall River	*Ernest M. Morris, M. D.	Health commissioner.
Fitchburg	*Fred R. Brigham	Agent, board of health.
Framingham	*David Moxon, B. Sc. in bacteriology, C. P. H.	Do.
Gardner	*William P. O'Donnell	Do.
Gloucester	George S. Rust, M. D.	Health officer.
Greenfield	*George P. Moore	Agent, board of health.
Haverhill	*George T. Lennon	Do.
Holyoke		
Lawrence	Aime D. V. Bourget	Chairman, board of health.
Leominster	*Hugh E. Crain	Agent, board of health.
Lowell		
Lynn	Walter L. Burns, M. D.	Commissioner of public health

City	Name of health officer	Official title
Massachusetts—Continued.		
Malden.....	*Frederick Walmsley.....	Health inspector of contagious diseases.
Marlborough.....	*John J. Cassidy.....	Agent, board of health.
Medford.....	William N. Lanigan, M. D.....	Medical inspector.
Melrose.....	Clarence P. Holden, M. D.....	Chairman, board of health.
Methuen.....	John Oddy, M. D.....	Health physician.
Milford.....	James F. McDonough.....	Sanitary inspector.
Milton.....	Paul W. Kimball, M. D.....	Agent, board of health.
Natick.....	Thomas F. Morris.....	Do.
Needham.....	*G. Donald Buckner.....	Health officer and milk inspector.
New Bedford.....	*Wm. G. Kirschbaum.....	Agent and executive officer.
Newburyport.....	*Wilbur N. O'Brien, Ph. G.....	Agent, board of health.
Newton.....	*Francis George Curtis, M. D.....	Chairman, board of health.
North Adams.....	*Douglas W. Hyde, S. E.....	Agent, board of health.
North Attleboro.....	Michael E. Vance, M. D.....	Health officer.
Northampton.....	*Geo. R. Turner.....	Agent, board of health.
Norwood.....	James J. Mulvehill, D. V. M.....	Agent and inspector of milk.
Peabody.....	*Percy F. Murray.....	Health agent.
Pittsfield.....	*Willis M. Monroe, M. D.....	Health officer.
Plymouth.....	Walter D. Shurtleff, M. D.....	Do.
Quincy.....	Cornelius J. Lynch, M. D.....	Health commissioner.
Revere.....	Francis Licata, M. D.....	Chairman and health officer.
Salem.....	*John J. McGrath.....	Agent, board of health.
Saugus.....	Charles E. Light.....	Chairman, board of health.
Somerville.....	Frank L. Morse, M. D.....	Medical inspector and bacteriologist.
Southbridge.....	*Albert R. Brown.....	Agent, board of health.
Springfield.....	*Jacob R. Sackett.....	Agent and health officer.
Stoneham.....	*George A. Hinchcliffe.....	Secretary and health officer.
Swampscott.....	*Clarence W. Horton.....	Health officer.
Taunton.....	Thomas F. Cusick, M. D.....	Chairman, board of health.
Wakefield.....	David Taggart.....	Health officer and agent.
Waltham.....	Frederick L. MacDonald, M. D.....	Director of public welfare.
Watertown.....	*Arthur E. Burke, C. P. H.....	Agent, board of health.
Webster.....	Joseph C. Sullivan, M. D.....	Health officer.
Wellesley.....	Curtis M. Hilliard.....	Supervisor of health.
West Springfield.....	John J. Lysaght.....	Agent, board of health.
Westfield.....	R. M. Marr, M. D.....	Chairman, board of health.
Weymouth.....	F. L. Doucett, M. D.....	Clerk, board of health.
Winchester.....	*Maurice Dinneen.....	Agent, board of health.
Winthrop.....	*William D. Childress.....	Health officer and agent.
Woburn.....	*Edward T. Gorman.....	Agent and secretary.
Worcester.....		
Michigan:		
Adrian.....	A. B. Hewes, M. D.....	City physician and health officer.
Alpena.....	D. A. Cameron, M. D.....	City physician.
Ann Arbor.....	John A. Wessinger, M. D.....	Health officer.
Battle Creek.....	*A. A. Hoyt, M. D.....	Health officer and registrar.
Bay City.....	G. W. Moore, M. D.....	Health officer.
Benton Harbor.....	William Clinton Ellet, M. D.....	Director of public health.
Dearborn.....	C. A. Christensen, M. D.....	Commissioner of health.
Detroit.....	Board of health—	
	William A. Evans, M. D.....	President.
	L. O. Geib, M. D.....	Vice president.
	Gustavus D. Pope.....	
	William H. Maybury.....	
	Executive staff, department of health—	
	*Henry F. Vaughan, Dr. P. H.....	Commissioner of health.
	Bert U. Estabrook, M. D.....	Deputy commissioner.
	*Fred M. Meader, M. D.....	Deputy commissioner and executive officer.
	*John F. Norton, Ph. D.....	Director of laboratories.
	*Don W. Gudakunst, M. D.....	Deputy commissioner and medical director.
	A. C. Thompson, D. D. S.....	Director of school dental service.
	*Miss Grace Ross, R. N.....	Superintendent of nursing.
	Ward F. Seeley, M. D.....	Director of Herman Kiefer Hospital maternity division.
	Russell W. Alles, M. D.....	Director, of prenatal division.
	*Major John F. Roehl.....	Director of special investigation.
	*R. S. Dixon, M. D.....	Director of division of venereal diseases.
	*Henry D. Chadwick, M. D.....	Tuberculosis controller.
	*B. H. Douglas, M. D.....	Superintendent of William H. Maybury Sanatorium.
	*George E. Phillips.....	Superintendent of Herman Kiefer Hospital.
	*F. Gardner Legg, C. E.....	Director of sanitary engineering.
	*Edward C. Schultz.....	Director of dairy and food inspection.
	*Arthur P. Derby, M. D.....	Director of division of tuberculosis.
	Don J. Barnes, M. D.....	Director of division of child welfare.
	*F. B. Broderick, M. D.....	Director of division of hairdressers and cosmeticians.

City	Name of health officer	Official title
Michigan—Continued.		
Detroit—Continued.	Executive staff, department of health—Continued.	
	*G. Arthur Blakeslee.....	Director of division of vital statistics.
	C. E. Dutches, M. D.....	Director of division of cancer control.
	*John E. Gordon, M. D.....	Medical epidemiologist of Herman Kiefer Hospital.
Ecorse.....	Lawrence Henry Van Beelaere, M. D.	Health officer.
Escanaba.....		
Ferndale.....	Eugene L. Spoehr, M. D.	Do.
Flint.....	*Charles J. Scavarda, M. D.	Health officer and registrar.
Grand Rapids.....	*Allison H. Edwards, M. D.	Health officer.
Grosse Pointe.....	*B. H. Warren, M. D.	Do.
Hamtramck.....	Charles Reynolds Sheridan, M. D.	Health commissioner.
Highland Park.....	William N. Braley, M. D.	Health officer.
Holland.....	Wm. Westrate, M. D.	Do.
Iron Mountain.....	James L. Browning, M. D.	Do.
Ironwood.....	*Louis Dorpat, M. D.	Do.
Jackson.....	*Floyd R. Town, M. D.	Do.
Kalamazoo.....	*A. H. Rockwell, M. D.	Do.
Lansing.....	*S. R. Hill, M. D.	Health director.
Lincoln Park.....	Dan. R. Herkimer, M. D.	Health officer.
Marquette.....	*T. R. Laughbaum, M. D.	Do.
Menominee.....	E. V. McComb, M. D.	Do.
Monroe.....	Wm. F. Acker, M. D.	City physician.
Mount Clemens.....	W. J. Kane, M. D.	Do.
Muskegon.....	R. J. Harrington, M. D.	City physician and health officer.
Muskegon Heights.....	Otto M. La Core, M. D.	Commissioner of health.
Niles.....	Lawrence M. Rutz, M. D.	Health officer.
Owosso.....	W. E. Ward, M. D.	Director of public health.
Pontiac.....	*Charles A. Neafie, M. D., M. S. P. H.	
Port Huron.....	Albert L. Callery, M. D.	Health officer.
River Rouge.....	Claude A. Smith, M. D.	Do.
Royal Oak.....	Ralph M. Vincent, M. D.	Director of public health.
Saginaw.....	*Garland Weidner, M. D.	Health officer.
Sault Ste. Marie.....	E. A. Cornell, M. D.	Do.
Traverse City.....	G. A. Holliday, D. D. S., M. D.	Do.
Wyandotte.....	Arthur P. Schulz, M. D.	Commissioner of health and sanitation.
Ypsilanti.....	D. N. Robb, M. D.	Health officer.
Minnesota:		
Albert Lea.....	Donald S. Branham, M. D.	Do.
Austin.....	J. K. McKenna, M. D.	Chairman, board of health.
Brainerd.....		
Duluth.....	Lincoln A. Sukeforth, M. D.	Director of health.
Fairbault.....	Frederick U. Davis, M. D.	Health commissioner.
Hibbing.....	G. N. Butchart, M. D.	Health officer.
Mankato.....	John A. Butzer, M. D.	Do.
Minneapolis.....	*Francis Edward Harrington, LL. D., M. D.	Commissioner of health.
Rochester.....	C. H. Mayo, M. D. ¹	Health officer.
St. Cloud.....	J. N. Libert, M. D.	City physician.
St. Paul.....	*B. F. Simon, M. D.	Chief health officer.
South St. Paul.....	O. S. Ely, M. D.	Commissioner of health.
Virginia.....	R. P. Pearsall, M. D.	Health officer.
Winona.....	William V. Lindsay, M. D.	Do.
Mississippi:		
Biloxi.....	G. F. Carroll, M. D.	City health officer.
Clarksdale.....	Vernon Baker Harrison, M. D.	Director of health.
Columbus.....	Charles Edward Lehmberg, M. D.	Health officer.
Greenville.....	*John W. Shackelford, M. D.	Director, county health department.
Greenwood.....	*Levi A. Barnett, M. D.	Director of health.
Gulfport.....		
Hattiesburg.....	*W. D. Beacham, M. D.	County health officer.
Jackson.....	*W. E. Noblin, M. D.	Field agent, U. S. Public Health Service.
Laurel.....	*(Mrs.) Clyde K. Barr, R. N.	Director of health.
McComb.....	*T. Paul Haney, Jr., M. D., C. P. H.	County health officer.
Meridian.....	*J. L. Googe, M. D.	Director, county health unit.
Natchez.....	*Loren Wallin, M. D.	County health officer.
Vicksburg.....		
Missouri:		
Cape Girardeau.....		
Columbia.....	W. A. Norris, M. D.	City health commissioner.
Hannibal.....	*E. M. Lucke, M. D.	Field agent, U. S. Public Health Service.

¹ D. C. Lockhead, M. D., D. P. H., deputy health officer, full time.

City	Name of health officer	Official title
Missouri—Continued		
Independence.....	F. L. Cook, M. D.....	City physician and dairy inspector.
Jefferson City.....	Louis A. T. Meyer, M. D.....	City physician.
Joplin.....	*M. B. Harutun, M. D.....	Commissioner of health and sanitation.
Kansas City.....	*Calvin L. Cooper, M. D.....	Director of health.
Maplewood.....	Ernest E. Tremain, M. D.....	Health commissioner.
Moberly.....	Jesse Maddox, M. D.....	City health commissioner.
St. Charles.....	Will L. Freeman, M. D.....	City physician and health officer.
St. Joseph.....	A. J. Smith, M. D.....	City health officer.
St. Louis.....	*Max C. Starkloff, M. D.....	Health commissioner.
Sanitary section.....	*Max Kaufman.....	Deputy health officer.
Vital-statistics section.....	*Walter Cook.....	Director.
Dental section.....	*Leon Grosch.....	Do.
Chemical - bacteriological section.....	*Dr. Horbard Towles.....	Do.
Communicable disease section.....	*Thomas Buckland.....	Chief chemist.
Veneral-disease section.....	*Dr. J. C. Willett.....	Chief bacteriologist.
Municipal visiting nurses.....	*Dr. J. A. Smith.....	Director.
Tuberculosis controller.....		
Sedalia.....	*Dr. Marriott T. Morrison.....	Chief physician.
Springfield.....	*Mrs. Bertha Yenick.....	Director.
University City.....	*Dr. Howard Bell.....	Do.
Webster Groves.....	*R. Weikal.....	Sanitary officer.
Montana:	*Lon Sharp.....	Commissioner of health and sanitation.
Anaconda.....	Leo P. Fitz Gerald, M. D.....	Commissioner of health.
Billings.....	Carl C. Irick, M. D.....	Health commissioner.
Butte.....	F. J. Malloy, M. D.....	Health officer.
Great Falls.....	Elmer G. Balsam, M. D.....	Secretary, board of health.
Helena.....	Joseph J. Kane, M. D.....	City physician.
Missoula.....	*F. L. Watkins, M. D.....	County health officer and field agent, U. S. Public Health Service.
Nebraska:	*Arthur Jordan, M. D.....	Field agent, U. S. Public Health Service.
Beatrice.....	*F. D. Pense, M. D.....	Health officer.
Fremont.....	G. L. Roe, M. D.....	Do.
Grand Island.....	J. S. Devries, M. D.....	City physician.
Hastings.....	J. G. Woodin, M. D.....	Do.
Lincoln.....	J. P. Feese, M. D.....	Do.
Norfolk.....	M. F. Arnholt, M. D.....	Superintendent of health.
North Platte.....	C. J. Verges, M. D.....	City physician.
Omaha.....	J. B. Redfield, M. D.....	Do.
Nevada:	A. S. Pinto, M. D.....	Health commissioner.
Reno.....	Albert F. Adams, Ph. G., M. D.....	Secretary, board of health.
New Hampshire:		
Berlin.....	*Ell A. Marcoux.....	Health officer and milk inspector.
Claremont.....	William P. Prescott.....	Health officer.
Concord.....	*Charles E. Palmer.....	Sanitary officer.
Dover.....	*Wm. E. Whiteley.....	Executive officer.
Keene.....	*Fred C. Nims.....	Health officer.
Laconia.....	J. R. Perley, M. D.....	Member, board of health.
Manchester.....	*Howard A. Streeter, M. D.....	Health officer.
Nashua.....	P. J. McLaughlin, M. D.....	Chairman, board of health.
Portsmouth.....		
Rochester.....	C. E. Goodwin.....	Health officer.
New Jersey:		
Asbury Park.....	*B. H. Obert.....	Do.
Atlantic City.....	Samuel L. Salasin, M. D.....	Do.
Bayonne.....	William W. Brooke, M. D.....	Do.
Belleville.....	*Eugene T. Berry.....	Do.
Bloomfield.....	*Joseph C. Salle, Ph. G., D. V. S., D. O.....	Registrar, secretary, and health officer.
Bridgeton.....	*John G. Robbins.....	Sanitary inspector.
Burlington.....	*Kathryn C. Shedaker.....	Health officer, secretary, registrar and sanitary inspector.
Camden.....	*Arthur L. Stone, M. D.....	Director of public health.
Carteret.....	H. L. Strandberg, M. D.....	Health officer.
Cliffside Park.....	Frederick J. Dyer.....	Health officer and sanitary inspector.
Clifton.....	Jeremiah P. Quinlan.....	Health officer.
Collingswood.....	Harold K. Eynon, M. D.....	Medical inspector.
Dover.....	*John G. Taylor.....	Health officer.
East Orange.....	*Frank J. Osborne.....	Health officer and secretary.
Elizabeth.....	*Louis J. Richards, S. B. in sanitary engineering.....	Health officer.
Englewood.....	*John A. Manson.....	Sanitary inspector.
Garfield.....	Charles Blessey, M. D.....	Health officer.
Gloucester City.....	J. Alonzo Beck, M. D.....	Do.
Hackensack.....	*L. Van D. Chandler.....	Do.
Harrison.....	*John T. McClure.....	Do.
Hawthorne.....	William Missonellie, M. D.....	Sanitary inspector.
Hoboken.....	J. F. X. Stack, M. D.....	Commissioner of health.
Irvington.....		

City	Name of health officer	Official title
New Jersey—Continued.		
Jersey City.....	*James J. Hagan.....	Health officer.
Kearny.....	*Amos Field, Jr.....	Do.
Linden.....	*Miss Maidie E. Noe.....	Do.
Lodi.....	H. H. Brevoort, M. D.....	Do.
Long Branch.....	*R. C. Erickson.....	Do.
Millville.....	Richard H. Knowles.....	Do.
Montclair.....	*Carl T. Pomeroy, C. P. H.....	Do.
Morristown.....	*John F. Kilkenny.....	Do.
New Brunswick.....	E. Irving Cronk, M. D.....	Do.
Newark.....	*Charles V. Craster, D. P. H., M. D.....	Do.
Nutley.....	*Eugene H. Sullivan, R. N.....	Do.
Orange.....	*Lenore Young Wylie, R. N.....	Health officer and registrar of vital statistics.
Passaic.....	John N. Ryan, M. D.....	Health officer.
Paterson.....	*Frederick P. Lee, M. D.....	Do.
Perth Amboy.....	*Chas. S. Thompson, D. V. S.....	Do.
Phillipsburg.....	Alma L. Williston, M. D.....	Do.
Plainfield.....	*N. J. Randolph Chandler.....	Health officer and registrar.
Pleasantville.....		
Rahway.....	*Fred M. Williams.....	Health officer.
Red Bank.....	W. H. Lawes, Jr., D. V. M.....	Sanitary inspector.
Ridgefield Park.....	*William F. Reynolds, D. V. M.....	Health officer.
Ridgewood.....	Harry H. Pettit, M. D.....	Do.
Roselle.....	Perry A. Proudfoot, M. D.....	Do.
Rutherford.....	*Marine Dunn.....	Sanitary inspector.
South Orange.....	A. C. Benedict, M. D.....	Health officer.
South River.....	S. Evans Selover, M. D.....	Sanitary inspector.
Summit.....	Henry P. Dengler, M. D.....	Executive officer.
Trenton.....	*Alton S. Fell, M. D.....	Health officer.
Union City.....	Grant P. Curtis, M. D.....	Do.
West New York.....	*Rudolph Kunze.....	Chief inspector.
West Orange.....	*David E. Buckley.....	Health officer.
Westfield.....	*Andrew Carney.....	Do.
New Mexico:		
Albuquerque.....	*James R. Scott, Ph. D., M. D.....	County health officer.
Roswell.....	William W. Phillips, M. D.....	Do.
Santa Fe.....	*E. B. Godfrey, M. D.....	County and city health officer.
New York:		
Albany.....	James W. Wiltse, M. D.....	Health officer.
Amsterdam.....	F. J. Fitzgibbons, M. D.....	Do.
Auburn.....	John W. Copeland, M. D.....	Do.
Batavia.....	E. F. Will, M. D.....	Do.
Beacon.....	Charles B. Dugan, Ph. B., M. D.....	Do.
Binghamton.....	Chalmer J. Longstreet, M. D.....	Do.
Buffalo.....	*Francis E. Fronczak, LL. D., M. D., Dr. Sc. P. H.....	Health commissioner.
	*Edward Durney, M. D.....	Deputy health officer.
	*Charles A. Bentz, M. D.....	Do.
	*Edward Durney, M. D.....	Director.
	*Charles A. Bentz, M. D.....	Do.
Division of child hygiene.....		
Communicable disease and division of labora- tories.....		
Division of vital statistics.....	*G. H. Westinghouse, M. D.....	Registrar.
Division of sanitation.....	*Frank Smering.....	Assistant superintendent.
Division of food and drugs.....	*Stephen Bateson.....	Do.
Cohoes.....	Matthew J. Keough, M. D.....	Commissioner of health.
Corning.....	Henry E. Elwood, Jr., M. D.....	Health officer.
Cortland.....	*Daniel R. Reilly, M. D., C. P. H.....	County health commissioner.
Dunkirk.....	George E. Ellis, M. D.....	Health officer.
Elmira.....	Reeve B. Howland, M. D.....	City health officer.
Endicott.....	Mark W. Welch, M. D.....	Health officer.
Floral Park.....	Arthur E. Goldfarb, M. D.....	Do.
Freeport.....	William H. Runcie, M. D.....	Do.
Fulton.....	L. A. Simpson, M. D.....	Do.
Geneva.....	C. W. Grove, M. D.....	Do.
Glen Cove.....	Joseph B. Conolly, M. D.....	Do.
Glens Falls.....	*Virgil D. Selleck, M. D., C. P. H.....	Do.
Gloversville.....	A. L. Johnson, M. D.....	Do.
Hempstead.....	Smith A. Combes, M. D.....	Do.
Herkimer.....	James W. Graves, M. D.....	Do.
Hornell.....	George E. Taylor, M. D.....	Do.
Hudson.....	William D. Collins, M. D.....	Do.
Ithaca.....	*Lewell T. Genung, M. D.....	Health officer and school physician.
Jamestown.....	William M. Sill, M. D.....	Superintendent of public health.
Johnson City.....		
Johnstown.....	Guy Vail Wilson, M. D.....	Commissioner of public health and welfare.
Kenmore.....	E. R. Linklater, M. D.....	Health officer.
Kingston.....	Lester E. Sanford, M. D.....	Do.
Lackawanna.....	A. S. Culkowski, M. D.....	Do.
Little Falls.....	George S. Eveleth, M. D.....	Do.

City	Name of health officer	Official title
New York—Continued.		
Lockport.....	*F. A. Kittinger, M. D.....	Health officer.
Lynbrook.....	F. M. Galloway, M. D.....	Do.
Mamaroneck.....	Edward M. Clark, M. D.....	Do.
Massena.....	C. E. Elkins, M. D.....	Do.
Middletown.....	H. J. Shelley, M. D.....	Do.
Mount Vernon.....	Frank W. Shipman, M. D.....	Commissioner of health.
New Rochelle.....	*Edward H. Coddling, M. D.....	Health officer.
New York.....	Shirley W. Wynne, M. D., Dr. P. H. Herman T. Peck, M. D.....	Commissioner of health. Deputy commissioner of health.
Bureau—		
General Administration.....	Bernard F. Plunkett.....	Secretary.
Records.....	John T. Walsh, M. D.....	Acting director.
Sanitation.....	William H. Pound, M. D.....	Sanitary superintendent.
Preventable diseases.....	Edward L. Creedon, M. D.....	Acting director.
Child hygiene.....	Jules L. Blumenthal, M. D.....	Director.
Nursing.....	Miss Amelia H. Grant.....	Do.
Public health education.....	Charles F. Bolduan, M. D.....	Do.
Laboratories.....	William H. Park, M. D.....	Do.
Food and drugs.....	Thomas F. Everett.....	Acting director.
Newburgh.....	Thomas J. Burke, M. D.....	Health officer.
Niagara Falls.....	E. E. Gillick, M. D.....	Do.
North Tonawanda.....	Henry C. Lapp, M. D.....	Do.
Ogdensburg.....	John W. Benton, M. D.....	Do.
Olean.....	John A. Johnson, M. D.....	Health commissioner.
Oneida.....	D. H. Conterman, M. D.....	Health officer.
Oneonta.....		
Ossining.....		
Oswego.....	Harvey S. Albertson, M. D.....	Do.
Peekskill.....	Harold H. Golding, M. D.....	Do.
Plattsburg.....	Leo F. Schiff, M. D.....	Do.
Port Chester.....	William J. Sheehan, M. D.....	Do.
Port Jervis.....	Q. Otto Pobe, M. D.....	City health officer.
Poughkeepsie.....	*William H. Conger, M. D.....	Health officer.
Rensselaer.....	Charles H. Harbinson, M. D.....	Do.
Rochester.....	*George W. Goler, M. D.....	Do.
Rockville Center.....	Arthur D. Jaques, M. D.....	Do.
Roma.....	Lewis N. Eames, M. D.....	Do.
Saratoga Springs.....	Charles B. Small, M. D.....	City health officer.
Schenectady.....	Fred J. MacDonald, M. D.....	Commissioner of health.
Syracuse.....	*George C. Ruhland, M. D.....	Do.
Tonawanda.....	Russell H. Wilcox, M. D.....	Health officer.
Troy.....	James H. Flynn, M. D.....	Commissioner of health.
Utica.....	Hugh H. Shaw, M. D.....	Health officer.
Valley Stream.....	Bernard J. Goldfarb, M. D.....	Do.
Watertown.....	G. B. Van Doren, M. D.....	Do.
Watervliet.....	C. A. Birmingham, M. D.....	Commissioner of health.
White Plains.....	Matthias Nicoll, jr., M. D.....	Do.
Yonkers.....	Clarence W. Buckmaster, M. D., C. P. H.....	Do.
North Carolina:		
Asheville.....	*D. E. Sevier, M. D.....	Do.
Charlotte.....	*Wilbur Ashley McPhaul, M. D.....	Superintendent of health.
Concord.....	*D. G. Caldwell, M. D.....	County health officer.
Durham.....	*J. H. Epperson.....	Superintendent of health.
Elizabeth City.....	I. A. Ward, M. D.....	Health officer.
Fayetteville.....	*L. L. Williams, M. D., C. P. H.....	City and county health officer.
Gastonia.....	Mc. G. Anders, M. D.....	City physician and health officer.
Goldsboro.....	*F. M. Register, M. D.....	Director of public health.
Greensboro.....	*C. Curtis Hudson, M. D.....	City health officer.
High Point.....	W. J. McAnally, M. D.....	Health officer.
Kinston.....	*Z. V. Mossby, M. D.....	County health officer.
New Bern.....	N. M. Gibbs, M. D.....	Health officer.
Raleigh.....	*A. C. Bulla, M. D.....	Do.
Rocky Mount.....	*Roy Norton, M. D.....	Director, department of public health.
Salisbury.....	*C. W. Armstrong, M. D.....	City and county health officer.
Shelby.....	D. F. Moore, M. D.....	City health officer.
Statesville.....	James Alexander, M. D.....	City physician.
Thomasville.....	*G. C. Gambrell, M. D.....	County health physician.
Wilmington.....	*John H. Hamilton, M. D.....	County health officer.
Wilson.....	*C. L. Swindell, M. D.....	City and county health officer.
Winston-Salem.....	*R. L. Carlton, M. D.....	City health officer.
North Dakota:		
Bismarck.....	C. E. Stackhouse, M. D.....	Do.
Fargo.....	*B. K. Kilbourne, M. D.....	Do.
Grand Forks.....	E. C. Haagensen, M. D.....	Do.
Minot.....	Frank E. Wheelon, M. D.....	Do.
Ohio:		
Akron.....	*Melville D. Ailes, LL. B., M. D.....	Director of health.
Alliance.....		
Ashland.....	C. B. Meuser, M. D.....	Director of welfare.
Ashtabula.....	Arro J. Pardee, M. D.....	Health officer.
Barberton.....	H. A. Finefrock, M. D.....	Health commissioner.
Bellaire.....	W. J. Shepard, M. D.....	Do.

City	Name of health officer	Official title
Ohio—Continued.		
Bucyrus.....	W. G. Carlisle, M. D.....	Health commissioner.
Cambridge.....	C. L. Vorhies, M. D.....	Do.
Campbell.....	James S. Mariner, M. D.....	Do.
Canton.....	*Frank M. Sayre, M. D.....	Do.
Chillicothe.....	*R. E. Bower, Ph. B., M. D.....	Do.
Cincinnati.....	*Wm. H. Peters, M. D., Dr. P. H.....	Commissioner of health.
Cleveland.....	*H. J. Knapp, M. D.....	Do.
Division—		
Communicable diseases.....	T. G. Duncan, M. D.....	Director.
Child hygiene.....	R. J. Ochsner, M. D.....	Do.
Food and drug admin- istration.....	R. F. Leslie, D. V. M.....	Do.
Laboratories.....	E. B. Buchanan.....	Do.
Cleveland Heights.....	*Robert Lockhart, M. D.....	Director of health.
Columbus.....	*Nelson C. Dysart, M. D.....	Health commissioner.
Coshocton.....		
Cuyahoga Falls.....	*R. H. Markwith, M. D.....	Do.
Dayton.....	*A. O. Peters, M. D.....	Do.
East Cleveland.....	George W. Stober, M. D.....	Director of health.
East Liverpool.....	Edward W. Miskall, M. D.....	Health commissioner.
Elyria.....	George E. French, M. D.....	Do.
Euclid.....	*Robert Lockhart, M. D.....	District health commissioner.
Findlay.....	*K. B. Clark.....	City health commissioner.
Fostoria.....	*L. W. Gibson.....	Health commissioner.
Fremont.....		
Garfield Heights.....	*Robert Lockhart, M. D.....	District health commissioner.
Hamilton.....	*C. J. Baldrige, B. L., M. D.....	City and county health commis- sioner.
Ironton.....	H. S. Allen, M. D.....	Health commissioner.
Lakewood.....	Wallace J. Benner, M. D.....	Commissioner of health.
Lancaster.....	Clifford B. Snider, M. D.....	Health commissioner.
Lima.....	James B. Poling, M. D.....	Do.
Lorain.....	Valloyd Adair, M. D.....	Health commissioner.
Mansfield.....	*Millard C. Hanson, M. D.....	Do.
Marietta.....	J. B. McClure, M. D.....	Do.
Marion.....	*N. Sifrit, M. D.....	Do.
Martins Ferry.....	*John Donovan.....	Do.
Massillon.....	*John H. Williams.....	Do.
Middletown.....	*G. D. Lummis, M. D.....	Do.
New Philadelphia.....	Jos. Blickensderfer, M. D.....	Do.
Newark.....	Wm. Henry Knauss, M. D.....	Do.
Niles.....	William A. Werner, M. D.....	Do.
Norwood.....		
Painesville.....	*Mrs. Clara C. Wilder, R. N.....	Do.
Parma.....	*Robert Lockhart, M. D.....	District health commissioner.
Piqua.....	L. G. Whitney.....	Health commissioner.
Portsmouth.....	Oral D. Tatje, M. D.....	Commissioner of health.
Salem.....	T. T. Church, M. D.....	Health commissioner.
Sandusky.....	*F. M. Houghtaling, M. D.....	Do.
Shaker Heights.....	*Robert Lockhart, M. D.....	Do.
Springfield.....	*Howard C. Lisle, Ph. C., M. D.....	Health director.
Steubenville.....	*Julius A. Pizzoferrato.....	City health commissioner.
Struthers.....	Charles Scofield, M. D.....	Health commissioner.
Tiffin.....	*J. A. Gosling, M. D.....	Do.
Toledo.....	*John L. Lavan, M. D.....	Do.
Warren.....	M. T. Knappenberger, M. D.....	Do.
Wooster.....	*William G. Rhoten, M. D.....	Do.
Xenia.....	A. D. DeHaven, M. D.....	Do.
Youngstown.....	H. E. Welch, M. D.....	Commissioner of health and welfare.
Zanesville.....	David J. Evans, M. D.....	Superintendent of health.
Oklahoma:		
Ada.....	W. R. Threlkeld, M. D.....	Health officer.
Ardmore.....	A. Y. Easterwood, M. D.....	City physician.
Bartlesville.....	Elizabeth W. Chamberlin, M. D.....	Do.
Chickasha.....		
Enid.....		
Lawton.....	*W. P. Ford.....	City chemist.
McAlester.....	*Chas. M. Pearce, M. D.....	Superintendent of health.
Muskogee.....	A. W. Harris, M. D.....	City superintendent of health.
Oklahoma City.....	*W. H. Miles, M. D.....	Director of health.
Oklmulgee.....	Ben. G. Hardcastle.....	City health officer.
Ponca City.....	*Mildred Headly, R. N.....	Superintendent, board of health.
Sapulpa.....	J. M. Mattenlee, M. D.....	City physician.
Seminole.....		
Shawnee.....	T. C. Sanders, M. D.....	Do.
Tulsa.....	*Harry J. McGuire, M. D.....	Superintendent of health.
Wewoka.....	*Geo. Hunter, M. D.....	Field agent, U. S. Public Health Service.
Oregon:		
Astoria.....	Nellie S. Vernon, M. D.....	City and county health officer.
Eugene.....	*Seth M. Kerron, M. D.....	Do.
Klamath Falls.....		
Medford.....	L. D. Inskeep, M. D.....	City health officer.

City	Name of health officer	Official title
Oregon—Continued.		
Portland.....	*John G. Abele, M. D.	City health officer.
Salem.....	*Vernon A. Douglas, M. D.	Do.
Pennsylvania:		
Aliquippa.....	*J. E. Tanner	Health officer.
Allentown.....	*J. Treichler Butz, D. D. S., M. D.	Do.
Altoona.....	*T. G. Herbert	Chief, bureau of health.
Ambridge.....	*Louis Herrmann	Health officer.
Arnold.....	A. B. Bishop	Do.
Beaver Falls.....	*Nelson W. Osmond	Health officer and plumbing inspector.
Bellevue.....	*James B. Arthur	Health officer.
Berwick.....	*Charles E. Ross	Do.
Bethlehem.....	F. J. Conahan, M. D.	City health physician.
Braddock.....	*Jas. E. Wills	Health officer.
Bradford.....	*R. G. Vogel	Do.
Bristol.....		
Butler.....	*J. Fred Leetch	Do.
Canonsburg.....		
Carbondale.....		
Carlisle.....	*John T. Glass	Do.
Carnegie.....	*Joseph Lewis	Ordinance officer.
Chambersburg.....	*Frank J. Croft	City health officer and secretary.
Charleroi.....	*W. M. Darby	Health inspector.
Chester.....		
Clairton.....	*F. F. Keller	Health officer.
Coatesville.....	Charles V. Peace, V. M. D., M. D.	Do.
Columbia.....	George M. Rodenhauser	Do.
Connellsville.....	*D. E. Miner	Health officer and sealer of weights and measures.
Conshohocken.....	Thomas S. White	Health officer.
Coraopolis.....	F. H. Stark	Do.
Dickson City.....		
Donora.....	*Herman Lang	Do.
Dormont.....	John E. Madden, M. D.	Do.
Du Bois.....	J. I. Brockbank, M. D.	City health officer.
Dunmore.....	William Ferrese	Health officer.
Duquesne.....	*Emil Elmgren	Do.
Easton.....	J. A. Stotz, M. D.	City health officer.
Ellwood City.....	*Louis Young	Health officer and milk inspector.
Erie.....	James R. Smith, M. D.	Health officer.
Farrell.....	*Harry N. Schmidt	Do.
Franklin.....		
Greensburg.....	*T. Ray Hunter	Do.
Hanover.....	*F. Y. Stambaugh	Do.
Harrisburg.....	John M. J. Raunick, M. D.	Do.
Hazleton.....	*William Pfaff	Do.
Homestead.....	*Morris D. Weis	Do.
Jeannette.....	*Charles E. Walter	Chief health officer.
Johnstown.....	L. W. Jones, M. D.	Health officer.
Kingston.....	*F. J. Seward	Do.
Lancaster.....	*Benj. F. Charles	Do.
Latrobe.....	W. T. Osborne	Do.
Lebanon.....		
Lewistown.....	H. E. Fetterolf	Do.
McKeesport.....	*Daniel F. Marsh	Do.
McKees Rocks.....		
Mahanoy City.....	*J. B. Kleindienst	Do.
Meadville.....	*John Laley	Do.
Monessen.....	*Francis E. Gibson	City health officer.
Mount Carmel.....	*Charles F. Cohoon	Health officer.
Munhall.....	Charles Watt	Do.
Nanticoke.....	*D. F. Sakowski	Do.
New Castle.....	William L. Steen, M. D.	Do.
New Kensington.....	A. J. Beser, M. D.	Secretary, board of health.
Norristown.....	*R. Ronald Dettre	Secretary and health officer.
North Braddock.....	*Michael J. Pastor	Health officer.
Oil City.....	*William J. Lewis	Do.
Old Forge.....	George Allen	Do.
Olyphant.....	*Ignatious Zewan	Do.
Philadelphia.....	*A. A. Cairns, M. D., Dr. F. H.	Director, department of public health.
	*Michael C. Goglia	Assistant director, department of public health.
Bureau of health.....	*William J. Wolf	Secretary.
Bureau of hospitals.....	*William L. Thatcher	Chief.
Philadelphia General Hospital, Thirty-Fourth and Pine Streets.		
Philadelphia Hospital for Contagious Diseases, Second and Luzerne Streets.		
Philadelphia Hospital for Mental Diseases, Byberry.		

City	Name of health officer	Official title
Pennsylvania—Continued.		
Phoenixville.....	*Russell E. Deery.....	Health officer.
Pittsburgh.....	*Charles B. Maits, M. D.....	Director, department of public health.
Bureau of infectious diseases (including municipal and tuberculosis hospitals).....	*P. E. Marks, M. D.....	Superintendent.
Bureau of sanitation.....	*Charles Parkinson.....	Do.
Bureau of child welfare.....	*H. J. Benz, M. D.....	Do.
Bureau of food inspection.....	*J. C. McNeil, V. M. D.....	Do.
Bureau of smoke regulation.....	*H. B. Meller, C. E.....	Do.
Pittston.....	*Fred E. Obley.....	Chief clerk.
Plymouth.....	*Michael A. McHale.....	Health officer.
Pottstown.....	*H. G. Templeton, M. D.....	Secretary, board of health.
Pottsville.....	*A. C. Huntzinger.....	Health officer.
Reading.....	*Ira J. Hain, M. D.....	Do.
Scranton.....	*Frank G. Bryant, M. D.....	Director of health.
Shamokin.....	*Frederick Zeiser.....	Health officer.
Sharon.....	*Louis C. Brainard.....	Sanitary officer.
Shenandoah.....	*Joseph Meluskey.....	Health officer.
Steelton.....	*E. G. Butler.....	Do.
Sunbury.....	*Victor A. Koble.....	Do.
Swissvale.....	*Samuel L. Glasgow.....	Do.
Tamaqua.....	E. E. Edwards, M. D.....	Do.
Taylor.....	*Manuel Emmanuel.....	Do.
Turtle Creek.....	*W. C. Hall.....	Do.
Uniontown.....	*Thos. J. Wyatt.....	Do.
Vandergrift.....	*R. N. Brown.....	Do.
Warren.....	*Thos. W. Henderson.....	Do.
Washington.....	*Percy H. Snowberger.....	Do.
Waynesboro.....	*Enoch Hershey.....	Do.
West Chester.....	*Charles B. Crittenden, M. D., C. P. H.....	Principal health officer.
Wilkes-Barre.....		
Wilkinsburg.....		
Williamsport.....	*Robert F. Trainer, M. D.....	Health officer.
York.....	J. Frank Small, M. D.....	Director of public health.
Rhode Island:		
Bristol.....	Octave Le Clair.....	Health officer.
Central Falls.....	C. S. Doucet, M. D.....	Superintendent of health.
Cranston.....	Daniel S. Latham, M. D.....	Do.
East Providence.....	W. H. T. Hamill, M. D.....	Health officer.
Newport.....	Edward V. Murphy, M. D.....	Commissioner of health.
North Providence.....	*Herbert A. Brown.....	Health officer.
Pawtucket.....	Florian A. Ruest, M. D.....	Superintendent of health.
Providence.....	*Charles V. Chapin, LL. D., M. D.....	Do.
Warwick.....	*Lawrence Jackson Smith, M. D., C. P. H., Apponaug.....	Commissioner of health.
West Warwick.....		
Westerly.....	Samuel C. Webster, Ph. G., M. D.....	Superintendent of health.
Woonsocket.....	Thomas S. Flynn, M. D.....	Health officer.
South Carolina:		
Anderson.....	*E. E. Epting, M. D.....	Director of health unit.
Charleston.....	*Leon Banov, M. D.....	City and county health officer.
Columbia.....	Paul Eugene Payne, M. D.....	Health officer.
Florence.....	*George Dawson Heath, M. D., Dr. P. H.....	Health commissioner.
Greenville.....	*Irving Sydnor Barksdale, M. D.....	Commissioner of health.
Greenwood.....	*Joseph E. Brodie, M. D.....	Health officer.
Rock Hill.....	R. D. Sumner, M. D.....	Medical officer.
Spartanburg.....		
Sumter.....	*John R. Sumter.....	Health officer.
South Dakota:		
Aberdeen.....	M. C. Johnston, M. D.....	City and county health officer.
Huron.....	W. H. Griffith, M. D.....	City health officer.
Mitchell.....	E. M. Young, M. D.....	Health officer.
Rapid City.....	*F. J. Austin, M. D.....	County health officer.
Sioux Falls.....	W. E. Donahoe, M. D.....	Health officer.
Watertown.....	George H. Richards, M. D.....	City health officer.
Tennessee:		
Bristol.....	J. A. Delaney, M. D.....	City physician.
Chattanooga.....	*Fred C. McIsaac, M. D.....	Director of health.
Jackson.....	Herman Hawkins, M. D.....	City health officer.
Johnson City.....	*Wallace L. Poole, M. S. in P. H., M. D.....	Director, county and city health departments.
Kingsport.....		
Knoxville.....	*William H. Enneis, M. D., M. P. H.....	City health officer.
Memphis.....	*L. M. Graves, M. D.....	Superintendent, health department.
Nashville.....	*John Overton, M. D.....	City health officer.

City	Name of health officer	Official title
Texas:		
Ablene.....	Scott W. Hollis, M. D.	County and city health officer.
Amarillo.....	*B. M. Primer, M. D., M. P. H.	Director of health.
Austin.....	*Lee E. Edens, M. D.	Director of public health and welfare.
Beaumont.....	Dru McMicklin, M. D.	City health officer.
Big Spring.....	M. H. Bennett, M. D.	Health officer.
Brownsville.....	Harry K. Loew, M. D.	City health officer.
Brownwood.....	D. R. Scott, M. D.	Health officer.
Cleburne.....	T. Wendell Pickens, M. D.	City health officer.
Corpus Christi.....	Burch Thompson, M. D.	Do.
Corsicana.....	Wm. R. Sneed, M. D.	City physician.
Dallas.....	*J. W. Bass, M. D.	Director of public health.
Del Rio.....	B. F. Orr, M. D.	City health officer.
Denison.....	W. A. Lee, M. D.	Do.
El Paso.....	*Phau Rivers Outlaw, M. D.	Health officer.
Fort Worth.....	*Arthur Heath Flickwir, surgeon (R), U. S. Public Health Service.	Director of public health and welfare.
Galveston.....	Walter Klaberg, M. D.	City health officer.
Greenville.....	Benj. F. Arnold, M. D.	Do.
Harlingen.....	Frank D. Walsworth, M. D.	Do.
Houston.....	*Allen C. Hutcheson, M. D.	Do.
Laredo.....		
Lubbock.....		
Marshall.....		
Palestine.....	J. M. Colley, M. D.	Do.
Pampa.....	Archie Cole, M. D.	Do.
Paris.....	D. S. Hammond, M. D.	Do.
Port Arthur.....	J. A. Broussard, M. D.	Do.
San Angelo.....	A. C. De Long, M. D.	Do.
San Antonio.....	*W. A. King, M. D.	Health officer.
San Benito.....		
Sherman.....		
Sweetwater.....	*M. H. Jensen, M. D.	Director, county health unit.
Temple.....		
Texarkana.....		
Tyler.....	Albert Woldert, Ph. G., M. D.	City health officer.
Waco.....	R. W. Crosthwait, M. D.	Do.
Wichita Falls.....	*H. D. Fillmore, M. D.	City physician.
Utah:		
Ogden.....	N. H. Savage, M. D.	Do.
Provo.....		
Salt Lake City.....	W. Christopherson, M. D.	Health commissioner.
Vermont:		
Barre.....	*Marshall D. Lamb, M. D.	City health officer.
Bennington.....	*Joseph M. Ayres.	Health officer.
Burlington.....	E. F. Foster, M. D.	City health officer.
Rutland.....	*Clare M. Cole.	Health officer.
Virginia:		
Alexandria.....	*W. Lewis Schafer, M. D.	Health officer and clinician.
Charlottesville.....	*George B. Young, M. D.	Health officer.
Danville.....	*R. N. Garnett, M. D.	Do.
Hopewell.....	L. A. Sims.	City engineer.
Lynchburg.....	*Mosby G. Perrow, Ph. D.	Director of public welfare.
Newport News.....	*G. Colbert Tyler, M. D.	Health officer.
Norfolk.....	*J. Jett McCormick, M. D.	Health commissioner.
Petersburg.....	Mason Roamine, M. D.	Health officer.
Portsmouth.....	*Lonsdale J. Roper, M. D.	Director of public welfare.
Richmond.....	*W. Brownley Foster, M. D.	Director of public welfare and health officer.
Roanoke.....	*Coleman Bernard Ransone, M. D.	Health officer.
Staunton.....	J. F. Fulton, M. D.	Do.
Suffolk.....	*Challis Haddon Dawson, M. D.	Director of health.
Winchester.....	L. M. Allen, M. D.	Health officer.
Washington:		
Aberdeen.....	B. O. Swinehart, M. D.	City health officer.
Bellingham.....		
Bremerton.....	D. H. Polk, M. D.	Do.
Everett.....	Carl W. Stomberg.	Do.
Hoquiam.....	Ruth E. Watkins, M. D.	Do.
Longview.....	Geo. H. Coffin, M. D.	City physician.
Olympia.....	Wayne L. Bridgford, M. D.	Health officer.
Port Angeles.....	Will H. Taylor, M. D.	City health officer.
Seattle.....	*E. T. Hanley, M. D.	Commissioner of health.
Spokane.....	*Ralph Hendricks, M. D.	Commissioner of public affairs and health officer.
Tacoma.....	Samuel Morton Creswell, M. D.	Director of health.
Vancouver.....	*Geo. H. T. Sparling, M. D.	County and city health officer.
Walla Walla.....	*Jerry E. Vanderpool, M. D.	Do.
Wenatchee.....	*Paul L. West, M. D.	Health officer.
Yakima.....	*Lloyd Moffitt, M. D.	County health officer.
West Virginia:		
Bluefield.....	*David B. Lepper, M. D., C. P. H.	City health director.
Charleston.....	Hugh B. Robins, M. D.	Health commissioner.

City	Name of health officer	Official title
West Virginia—Continued.		
Clarksburg.....	*J. E. Stephenson, M. D.....	City health officer.
Fairmont.....	*J. A. Jamison, M. D.....	Do.
Huntington.....	*W. M. York, M. D.....	Do.
Martinsburg.....	*Edwin Cameron, M. D.....	Health commissioner.
Morgantown.....	*H. H. Pierce, M. D.....	City health officer.
Moundsville.....	*W. G. C. Hill, M. D.....	County and city health officer.
Parkersburg.....	*Arthur D. Knott, M. D., D. P. H.....	Do.
Wheeling.....	*William Hay McLain, M. D.....	Do.
Wisconsin:		
Appleton.....	Frank P. Dohearty, M. D.....	Health officer.
Ashland.....	C. O. Hartzman, M. D.....	Health commissioner.
Beloit.....	*Clifford W. Andrews, M. D.....	Health officer.
Cudahy.....	Bernard Krueger, M. D.....	Do.
Eau Claire.....	L. H. Flynn, M. D.....	Do.
Fond du Lac.....	*G. B. McKnight, M. D.....	Do.
Green Bay.....	*Henry S. Atkinson, M. D.....	City physician and health commissioner.
Janesville.....	Fred B. Welch, M. D.....	City health officer.
Kenosha.....	*G. Windesheim, M. D.....	Director of health.
La Crosse.....	*Anthony M. Murphy.....	Acting health commissioner.
Madison.....	*F. F. Bowman, B. L., M. D.....	Health officer.
Manitowoc.....	George M. Hoffman, M. D.....	Health commissioner.
Marinette.....	J. Wm. Boren, M. D.....	Do.
Milwaukee.....	*John P. Koehler, M. D.....	Commissioner of health.
	E. V. Brumbaugh, M. D.....	Deputy commissioner of health.
School hygiene division.....	*George P. Barth, M. D.....	Director.
Division of venereal diseases.....	*William J. McKillip, M. D.....	Do.
Vital statistics.....	*George E. Adams.....	Deputy registrar.
Division of tuberculosis.....	*George R. Ernst, M. D.....	Director.
Contagious disease division.....	*Robert E. Hickey, M. D.....	Do.
Division of food and sanitary inspection.....	*Stanley Pilgrim, M. D. C.....	Do.
Bureau of laboratories.....	*R. W. Cunliffe.....	Do.
Division of child welfare.....	*E. V. Brumbaugh, M. D.....	Do.
Division of nurses.....	*Alma Brunk, R. N.....	Do.
Oshkosh.....	*Edw. J. Campbell, M. D.....	Health commissioner.
Racine.....	*William Waldo Bauer, M. D.....	Health officer.
Sheboygan.....	*Gustav J. Hildebrand, M. D.....	Commissioner of public health.
Shorewood.....	Walter G. Darling, M. D.....	Commissioner of health.
South Milwaukee.....	O. C. Heyer, M. D.....	Health commissioner.
Stevens Point.....	F. R. Krembs, M. D.....	Health officer.
Superior.....	*Geo. Hall Conklin, M. D.....	Health commissioner.
Two Rivers.....	A. P. Zlatnik, M. D.....	Health officer.
Watertown.....	F. C. Haney, M. D.....	Health commissioner.
Waukesha.....	Frank M. Scheele, M. D.....	Do.
Wausau.....	*L. F. Bugbee.....	Health officer.
Wauwatosa.....	Enoch F. Peterson, Ph. G., M. D.....	Health commissioner.
West Allis.....	*Samuel C. McCorkle, M. D.....	Do.
Wyoming:		
Casper.....	Neil Chas. Geis, M. D.....	City physician.
Cheyenne.....	N. C. Nelson, M. D.....	City and county health officer.

DEATHS DURING WEEK ENDED NOVEMBER 14, 1931

Summary of information received by telegraph from industrial insurance companies for the week ended November 14, 1931, and corresponding week of 1930. (From the Weekly Health Index, issued by the Bureau of the Census, Department of Commerce)

	Week ended Nov. 14, 1931	Corresponding week, 1930
Policies in force.....	74, 289, 657	75, 288, 546
Number of death claims.....	12, 908	13, 480
Death claims per 1,000 policies in force, annual rate.....	9. 1	9. 3
Death claims per 1,000 policies, first 46 weeks of year, annual rate.....	9. 6	9. 6

Deaths¹ from all causes in certain large cities of the United States during the week ended November 14, 1931; infant mortality, annual death rate, and comparison with corresponding week of 1930. (From the Weekly Health Index, issued by the Bureau of the Census, Department of Commerce)

[The rates published in this summary are based upon mid-year population estimates derived from the 1930 census]

City	Week ended Nov. 14, 1931				Corresponding week, 1930		Death rate ² for the first 46 weeks	
	Total deaths	Death rate ²	Deaths under 1 year	Infant mortality rate ³	Death rate ²	Deaths under 1 year	1931	1930
Total (82 cities).....	7,566	11.1	598	47	12.1	754	11.9	11.9
Akron.....	31	6.3	4	40	6.1	5	7.7	7.9
Albany.....	35	14.1	5	99	15.5	6	13.0	14.8
Atlanta.....	85	16.0	7	69	9.4	5	14.9	13.4
White.....	38	10.7	2	30	8.9	4	11.6	11.5
Colored.....	47	26.3	5	144	10.5	1	21.7	23.2
Baltimore.....	221	14.2	22	77	15.8	23	14.3	14.0
White.....	159	12.4	16	71	15.4	14	13.0	12.8
Colored.....	62	22.0	6	96	17.4	9	20.2	19.9
Birmingham.....	49	9.5	3	30	15.5	11	13.2	13.7
White.....	24	7.5	3	51	11.3	5	10.1	10.1
Colored.....	25	12.7	0	0	22.5	6	18.2	19.4
Boston.....	183	12.2	15	43	14.3	20	14.2	14.1
Bridgeport.....	34	12.1	6	101	8.9	1	11.1	10.9
Buffalo.....	121	10.9	8	36	13.0	13	12.9	12.9
Cambridge.....	27	12.3	2	41	11.9	2	12.0	11.8
Camden.....	34	14.9	0	0	13.2	1	14.1	13.5
Canton.....	27	13.2	4	99	5.9	5	10.1	9.9
Chicago.....	603	9.1	45	40	11.2	70	10.6	10.4
Cincinnati.....	143	16.3	19	114	19.1	11	15.9	15.6
Cleveland.....	176	10.1	19	55	9.7	15	11.1	11.1
Columbus.....	81	14.3	4	39	16.1	6	13.5	13.5
Dallas.....	59	11.3	7	-----	12.9	8	11.2	11.5
White.....	48	11.1	0	-----	13.0	6	9.8	10.5
Colored.....	11	12.1	1	-----	12.7	2	17.6	16.2
Dayton.....	40	10.1	5	71	12.9	7	11.8	10.7
Denver.....	70	12.5	3	30	17.3	14	13.8	14.9
Des Moines.....	24	8.7	4	76	10.6	1	11.0	11.7
Detroit.....	212	6.7	21	33	9.6	30	8.2	9.3
Duluth.....	23	11.8	3	81	12.8	2	11.2	11.4
El Paso.....	17	8.4	2	-----	11.1	4	15.3	17.0
Erie.....	22	9.7	0	0	7.2	1	10.3	11.1
Fall River.....	25	11.3	6	142	10.9	0	11.1	11.7
Flint.....	16	5.1	2	25	6.9	6	6.9	9.2
Fort Worth.....	32	10.0	2	-----	8.6	2	10.7	10.8
White.....	31	11.5	2	-----	8.3	1	10.3	10.3
Colored.....	1	1.9	0	-----	9.9	1	12.5	13.5
Grand Rapids.....	25	7.6	1	15	9.9	2	9.0	10.2
Houston.....	76	12.8	10	-----	14.7	7	11.0	12.1
White.....	33	7.6	6	-----	11.5	5	10.2	10.7
Colored.....	43	27.0	4	-----	23.2	2	13.5	15.9
Indianapolis.....	93	13.1	6	46	13.6	9	13.7	14.5
White.....	75	12.0	6	53	13.0	5	13.2	13.5
Colored.....	18	20.8	0	0	17.7	4	17.2	21.6
Jersey City.....	67	11.0	1	9	13.6	6	11.3	11.3
Kansas City, Kans.....	25	10.6	4	88	12.8	4	12.6	11.7
White.....	18	9.4	4	107	9.5	3	11.9	11.0
Colored.....	7	15.5	0	0	27.3	1	15.6	15.0
Kansas City, Mo.....	98	12.5	6	48	12.6	9	13.0	13.2
Knoxville.....	28	13.4	2	43	19.6	3	12.4	13.6
White.....	26	14.8	1	24	18.1	3	11.6	12.8
Colored.....	2	5.9	1	194	27.1	0	16.4	18.0
Long Beach.....	41	14.0	3	75	10.9	0	9.9	9.9
Los Angeles.....	260	10.3	20	58	11.1	23	10.6	11.0
Louisville.....	46	7.8	1	9	14.6	9	13.9	13.6
White.....	40	8.0	1	10	13.0	9	12.5	12.1
Colored.....	6	6.6	0	0	23.1	0	21.6	21.7
Lowell.....	18	9.3	3	78	14.5	3	12.7	13.4
Lynn.....	16	8.1	1	29	12.2	1	9.4	10.4
Memphis.....	69	13.9	7	74	18.5	9	16.6	17.0
White.....	36	11.7	4	67	15.3	4	13.5	13.3
Colored.....	33	17.4	3	87	23.7	5	21.4	23.1
Miami.....	26	12.1	3	77	13.2	4	11.7	10.9
White.....	21	12.6	2	72	12.2	2	10.8	9.6
Colored.....	5	10.3	1	91	16.6	2	14.9	15.3

See footnotes at end of table.

Deaths¹ from all causes in certain large cities of the United States during the week ended November 14, 1931; infant mortality, annual death rate, and comparison with corresponding week of 1930.—Continued

City	Week ended Nov. 14, 1931				Corresponding week, 1930		Death rate ² for the first 46 weeks	
	Total deaths	Death rate ³	Deaths under 1 year	Infant mortality rate ⁴	Death rate ⁵	Deaths under 1 year	1931	1930
Milwaukee.....	86	7.6	7	31	7.6	7	9.2	9.6
Minneapolis.....	87	9.6	11	71	9.8	18	11.1	10.7
Nashville ⁶	53	17.8	6	90	12.5	4	16.8	16.5
White.....	35	16.2	4	79	11.2	3	14.4	13.9
Colored.....	18	21.9	2	126	15.8	1	23.1	23.2
New Bedford ⁷	27	12.5	3	79	10.7	3	12.1	11.0
New Haven.....	42	13.5	3	46	14.7	3	12.5	12.8
New Orleans ⁸	148	16.8	16	84	18.0	14	16.7	17.3
White.....	91	14.3	10	84	14.8	6	13.6	14.3
Colored.....	57	22.1	5	83	26.1	8	24.5	24.9
New York.....	1,441	10.6	101	43	10.6	110	11.1	10.8
Bronx Borough.....	206	8.1	10	28	7.5	8	8.1	7.9
Brooklyn Borough.....	453	9.0	30	38	9.8	48	10.2	9.8
Manhattan Borough.....	586	16.8	44	59	15.8	47	16.7	16.0
Queens Borough.....	160	7.2	11	44	7.7	14	7.2	7.1
Richmond Borough.....	36	11.5	0	0	10.5	2	13.6	14.0
Newark, N. J.....	70	8.2	3	16	14.7	18	11.5	12.0
Oakland.....	65	11.6	3	38	9.7	3	10.5	10.9
Oklahoma City.....	35	9.3	7	98	10.0	5	10.7	10.6
Omaha.....	54	13.0	4	46	13.1	5	13.8	13.5
Paterson.....	31	11.6	4	68	7.9	4	13.3	12.1
Peoria.....	29	13.9	1	26	11.4	2	12.5	12.3
Philadelphia.....	447	11.9	34	49	13.2	48	12.9	12.6
Pittsburgh.....	191	14.7	11	38	14.7	13	14.4	13.8
Portland, Oreg.....	53	9.0	4	49	14.1	2	11.0	12.1
Providence.....	57	11.7	6	55	13.6	4	12.6	12.9
Richmond ⁸	50	14.1	2	29	16.5	4	15.4	14.9
White.....	27	10.7	2	44	14.4	3	13.0	12.1
Colored.....	23	22.7	0	0	21.6	1	21.5	21.5
Rochester.....	72	11.3	7	64	14.9	10	11.8	11.7
St. Louis.....	215	13.5	10	36	11.6	13	14.9	14.1
St. Paul.....	41	7.7	2	21	11.1	5	10.5	10.1
Salt Lake City ⁹	44	16.1	6	90	17.4	9	12.1	12.5
San Antonio.....	56	12.2	5	11.2	6	14.2	15.0	
San Diego.....	35	11.7	0	0	12.9	1	13.4	14.3
San Francisco.....	127	10.2	3	20	10.5	2	13.0	12.9
Schenectady.....	20	10.8	0	0	12.5	4	10.7	11.2
Seattle.....	86	12.1	5	49	11.7	4	11.4	10.8
Somerville.....	15	7.4	1	31	13.0	3	8.8	9.7
South Bend.....	25	12.1	2	52	7.0	0	8.1	8.9
Spokane.....	30	13.4	0	0	11.7	2	12.4	12.5
Springfield, Mass.....	34	11.6	2	34	12.8	2	11.6	12.1
Syracuse.....	51	12.5	8	98	9.9	5	11.6	11.6
Tacoma.....	25	12.1	1	28	15.6	1	12.2	12.6
Toledo.....	80	14.1	7	66	15.0	11	11.9	12.7
Trenton.....	29	12.2	1	18	11.4	6	16.3	16.5
Utica.....	37	18.9	0	0	12.8	0	14.2	14.8
Washington, D. C. ¹⁰	153	16.2	11	61	17.1	11	15.9	15.1
White.....	98	14.4	6	49	15.0	5	13.6	13.0
Colored.....	55	21.2	5	85	22.7	6	21.9	20.9
Waterbury.....	31	16.0	4	100	8.9	1	9.7	9.4
Wilmington, Del. ⁷	26	12.7	2	45	20.1	5	13.9	14.4
Worcester.....	38	10.0	4	57	14.4	6	12.0	12.7
Yonkers.....	27	10.1	2	48	6.2	3	8.3	8.0
Youngstown.....	25	7.5	4	55	13.8	4	9.9	10.3

¹ Deaths of nonresidents are included. Stillbirths are excluded.

² These rates represent annual rates per 1,000 population, as estimated for 1931 and 1930 by the arithmetical method.

³ Deaths under 1 year of age per 1,000 live births. Cities left blank are not in the registration area for births.

⁴ Data for 77 cities.

⁵ Deaths for week ended Friday.

⁶ For the cities for which deaths are shown by color the percentages of colored population in 1930 were as follows: Atlanta, 33; Baltimore, 18; Birmingham, 38; Dallas, 17; Fort Worth, 16; Houston, 27; Indianapolis, 12; Kansas City, Kans., 19; Knoxville, 16; Louisville, 15; Memphis, 38; Miami, 23; Nashville, 28; New Orleans, 29; Richmond, 29; and Washington, D. C., 27.

⁷ Population Apr. 1, 1930; decreased 1920 to 1930, no estimate made.

PREVALENCE OF DISEASE

No health department, State or local, can effectively prevent or control disease without knowledge of when, where, and under what conditions cases are occurring

UNITED STATES

CURRENT WEEKLY STATE REPORTS

These reports are preliminary, and the figures are subject to change when later returns are received by the State health officers

Reports for Weeks Ended November 21, 1931, and November 22, 1930

Cases of certain communicable diseases reported by telegraph by State health officers for weeks ended November 21, 1931, and November 22, 1930

Division and State	Diphtheria		Influenza		Measles		Meningococcus meningitis	
	Week ended Nov. 21, 1931	Week ended Nov. 22, 1930	Week ended Nov. 21, 1931	Week ended Nov. 22, 1930	Week ended Nov. 21, 1931	Week ended Nov. 22, 1930	Week ended Nov. 21, 1931	Week ended Nov. 22, 1930
New England States:								
Maine.....	2	5	1		147	20	0	0
New Hampshire.....		7			5		0	0
Vermont.....	5	2			41	1	0	0
Massachusetts.....	59	74	9	6	127	161	3	1
Rhode Island.....	3	12		1	126	1	0	0
Connecticut ¹	4	21	8	3	17	91	0	2
Middle Atlantic States:								
New York.....	106	93	19	14	199	192	9	5
New Jersey.....	41	65	9	12	45	130	1	4
Pennsylvania.....	159	152			319	268	4	3
East North Central States:								
Ohio.....	90	49	4	3	78	15	1	2
Indiana.....	97	61	5	11	18	121	1	0
Illinois.....	123	190	5	9	34	146	6	4
Michigan.....	56	188	1	5	24	44	2	8
Wisconsin.....	16	27	15	36	22	182	2	0
West North Central States:								
Minnesota.....	28	24	2		36	10	0	2
Iowa.....	19	19			1	4	0	0
Missouri.....	92	61	3	8	20	399	0	6
North Dakota.....	6	2				3	0	1
South Dakota.....	16	6			52	1	0	0
Nebraska.....	20	9	2	8	6	12	0	3
Kansas.....	87	15		1	19	7	1	3
South Atlantic States:								
Delaware.....	36	5	4		2	1	0	0
Maryland ¹	78	35	14	17	7	12	2	0
District of Columbia.....	17	15	2	3	3	6	0	1
Virginia.....							1	
West Virginia.....	55	25	16	23	110	18	0	0
North Carolina ¹	167	101	35	10	86	12	1	2
South Carolina.....	34	47	452	550	14		0	5
Georgia ¹	36	15	45	72	3	10	7	1
Florida.....	26	27	1	2	4	18	0	0

See footnotes at end of table.

Cases of certain communicable diseases reported by telegraph by State health officers for weeks ended November 21, 1931, and November 22, 1930—Continued

Division and State	Diphtheria		Influenza		Measles		Meningococcus meningitis	
	Week ended Nov. 21, 1931	Week ended Nov. 22, 1930	Week ended Nov. 21, 1931	Week ended Nov. 22, 1930	Week ended Nov. 21, 1931	Week ended Nov. 22, 1930	Week ended Nov. 21, 1931	Week ended Nov. 22, 1930
East South Central States:								
Kentucky.....	143	22					4	1
Tennessee.....	152	72	26	11	2	21	5	4
Alabama ¹	102	57	47	55	6	53	3	4
Mississippi.....	79	64					1	2
West South Central States:								
Arkansas.....	56	18	9	32	21		0	1
Louisiana.....	59	46	6	12	6	2	2	4
Oklahoma ¹	101	78	30	47	31	35	0	1
Texas.....	115	67	11	12	2	26	1	0
Mountain States:								
Montana.....	4	7			60	1	1	0
Idaho.....	9					6	0	1
Wyoming.....					1		0	0
Colorado.....	4	20			4	48	1	2
New Mexico.....	31	6				16	1	1
Arizona.....	10	4	2		1	34	0	1
Utah ¹	2	2	10	7	3		1	3
Pacific States:								
Washington.....	13	32			28	33	0	0
Oregon.....	4	5	28	13	12	57	0	0
California.....	110	66	73	31	181	117	4	5

Division and State	Poliomyelitis		Scarlet fever		Smallpox		Typhoid fever	
	Week ended Nov. 21, 1931	Week ended Nov. 22, 1930	Week ended Nov. 21, 1931	Week ended Nov. 22, 1930	Week ended Nov. 21, 1931	Week ended Nov. 22, 1930	Week ended Nov. 21, 1931	Week ended Nov. 22, 1930
New England States:								
Maine.....	1	3	25	17	0	0	2	17
New Hampshire.....	2	0	2	4	0	0	0	0
Vermont.....	4	0	5	13	8	1	0	0
Massachusetts.....	14	9	237	172	0	0	7	11
Rhode Island.....	0	0	19	6	0	0	0	3
Connecticut ¹	3	1	58	38	0	0	1	4
Middle Atlantic States:								
New York.....	42	11	385	409	3	25	21	33
New Jersey.....	13	0	143	144	0	0	7	8
Pennsylvania.....	14	5	403	520	0	1	64	40
East North Central States:								
Ohio.....	5	18	397	351	14	55	27	38
Indiana.....	0	2	106	204	6	73	11	4
Illinois.....	17	6	306	326	23	36	25	32
Michigan.....	6	4	228	210	4	41	16	15
Wisconsin.....	14	5	72	172	14	9	1	5
West North Central States:								
Minnesota.....	20	8	31	75	1	8	1	7
Iowa.....	5	14	55	50	33	13	6	5
Missouri.....	1	9	77	88	8	12	14	21
North Dakota.....	0	1	24	17	20	5	3	1
South Dakota.....	0	4	8	10	20	6	3	2
Nebraska.....	2	15	19	33	1	12	2	1
Kansas.....	0	10	51	47	8	24	7	7
South Atlantic States:								
Delaware.....	0	0	19	13	0	0	0	4
Maryland ²	2	3	126	82	0	0	27	39
District of Columbia.....	0	0	27	37	0	0	5	1
Virginia.....								
West Virginia.....	0	2	50	63	1	32	37	23
North Carolina ¹	3	0	263	120	0	0	5	6
South Carolina.....	2	2	16	29	0	1	11	24
Georgia ¹	0	0	40	35	0	0	16	18
Florida.....	0	0	9	7	2	1	0	1

¹ Typhus fever, 14 cases: 1 case in Connecticut, 2 cases in North Carolina, 5 cases in Georgia, and 6 cases in Alabama.

² New York City only.

³ Week ended Friday.

⁴ Figures for 1931 are exclusive of Oklahoma City and Tulsa and for 1930 are exclusive of Tulsa only.

Cases of certain communicable diseases reported by telegraph by State health officers for weeks ended November 21, 1931, and November 22, 1930—Continued

Division and State	Poliomyelitis		Scarlet fever		Smallpox		Typhoid fever	
	Week ended Nov. 21, 1931	Week ended Nov. 22, 1930	Week ended Nov. 21, 1931	Week ended Nov. 22, 1930	Week ended Nov. 21, 1931	Week ended Nov. 22, 1930	Week ended Nov. 21, 1931	Week ended Nov. 22, 1930
East South Central States:								
Kentucky.....	0	1	102	71	12	0	31	16
Tennessee.....	0	0	87	53	8	2	24	15
Alabama ¹	1	2	55	112	1	0	19	8
Mississippi.....	0	0	36	39	9	0	10	18
West South Central States:								
Arkansas.....	1	2	35	30	0	3	14	25
Louisiana.....	0	3	41	15	1	5	28	25
Oklahoma ⁴	1	2	39	65	10	13	32	23
Texas.....	0	7	59	41	9	3	17	32
Mountain States:								
Montana.....	0	0	34	22	0	6	2	1
Idaho.....	0	0	8	4	1	0	2	1
Wyoming.....	0	4	5	9	0	0	0	0
Colorado.....	0	1	23	27	2	7	4	10
New Mexico.....	0	3	9	3	1	0	12	5
Arizona.....	0	1	4	5	0	0	1	0
Utah ²	0	0	15	5	0	0	0	1
Pacific States:								
Washington.....	2	1	43	44	9	30	7	5
Oregon.....	0	1	20	18	22	15	3	8
California.....	5	24	134	94	3	18	14	10

¹ Typhus fever, 14 cases: 1 case in Connecticut, 2 cases in North Carolina, 5 cases in Georgia, and 6 cases in Alabama.

² Week ended Friday.

⁴ Figures for 1931 are exclusive of Oklahoma City and Tulsa and for 1930 are exclusive of Tulsa only.

SUMMARY OF MONTHLY REPORTS FROM STATES

The following summary of cases reported monthly by States is published weekly and covers only those States from which reports are received during the current week:

State	Menin- gococ- menin- gitis	Diph- theria	Infl- uenza	Ma- laria	Mea- sles	Pei- lagra	Polio- myelitis	Scarlet fever	Small- pox	Ty- phoid fever
<i>September, 1931</i>										
Hawaii Territory...	4	16			28		4	6	0	2
<i>October, 1931</i>										
Alabama.....	7	557	20		31	36	1	304	9	128
California.....	18	338	223	14	442	1	26	461	28	64
Idaho.....	3	16			8		4	60	4	17
Illinois.....	21	402	85	158	85	3	192	795	34	172
Louisiana.....	4	164	22	101	18	26	3	83	4	139
Maryland.....	3	302	39	4	33		15	311	0	188
Michigan.....	14	156	2	3	132		232	491	22	79
Minnesota.....	9	102	3		25		213	180	5	22
Missouri.....	8	470	11	51	24	1	21	363	18	121
New Jersey.....	5	118	25		50		143	326	0	36
New Mexico.....		88	1	19	1		5	34	1	53
New York.....	27	318			296		772	886	26	176
Ohio.....	16	734	46	4	152		39	1,438	16	223
Rhode Island.....		18			235		14	55	0	3
South Carolina.....		310	1,145	2,276	29	242	4	90	7	114
Texas.....	4	225	29	733			5	167		159
West Virginia.....	6	437	90		229		18	319	1	305

September, 1931

Hawaii Territory:	Cases
Chicken pox.....	11
Conjunctivitis.....	93
Dysentery (bacillary).....	1
Hookworm disease.....	77
Impetigo contagiosa.....	3
Leprosy.....	13
Mumps.....	4
Paratyphoid fever.....	3
Tetanus.....	2
Undulant fever.....	1

October, 1931

Anthrax:	
Louisiana.....	1
New York.....	1
Beri-beri:	
California.....	1
Chicken pox:	
Alabama.....	57
California.....	512
Idaho.....	76
Illinois.....	292
Louisiana.....	1
Maryland.....	49
Michigan.....	253
Minnesota.....	212
Missouri.....	77
New Jersey.....	153
New Mexico.....	25
New York.....	412
Ohio.....	583
Rhode Island.....	12
South Carolina.....	45
West Virginia.....	59
Conjunctivitis:	
New Mexico.....	3
Dengue:	
South Carolina.....	7
Diarrhea:	
Maryland.....	57
South Carolina.....	585
Diarrhea and enteritis (under 2 years):	
Ohio.....	53
Dysentery:	
California (amebic).....	24
California (bacillary).....	24
Illinois.....	68
Illinois (amebic).....	1
Illinois (bacillary).....	9
Louisiana.....	3
Maryland.....	37
Minnesota.....	16
Minnesota (amebic).....	2
Missouri.....	4
New Jersey.....	2
New York.....	33
Ohio.....	9
Food poisoning:	
California.....	13
Ohio.....	8
German measles:	
California.....	23
Illinois.....	10
Maryland.....	7

German measles—Continued.

	Cases
New Jersey.....	12
New Mexico.....	1
New York.....	81
Ohio.....	4
Rhode Island.....	2
South Carolina.....	2
Hookworm disease:	
Louisiana.....	12
South Carolina.....	130
Impetigo contagiosa:	
Maryland.....	223
Jaundice:	
California (epidemic).....	2
Maryland.....	1
Lead poisoning:	
Illinois.....	4
New Jersey.....	3
Ohio.....	10
Leprosy:	
California.....	1
Lethargic encephalitis:	
Alabama.....	1
California.....	3
Illinois.....	4
New Jersey.....	1
New York.....	10
Ohio.....	4
South Carolina.....	5
Ludwig's angina:	
Illinois.....	2
Mumps:	
Alabama.....	63
California.....	351
Idaho.....	23
Illinois.....	101
Louisiana.....	1
Maryland.....	58
Michigan.....	136
Missouri.....	11
New Jersey.....	43
New Mexico.....	16
New York.....	232
Ohio.....	381
Rhode Island.....	9
South Carolina.....	66
Ophthalmia neonatorum:	
California.....	1
Illinois.....	4
Maryland.....	2
Missouri.....	3
New Jersey.....	3
New Mexico.....	1
New York.....	6
Ohio.....	63
Rhode Island.....	2
South Carolina.....	12
Paratyphoid fever:	
California.....	9
Illinois.....	4
New Jersey.....	1
New Mexico.....	1
New York.....	15
Ohio.....	1
South Carolina.....	7
Texas.....	3
West Virginia.....	1

Puerperal septicemia:		Cases	Trichinosis:		Cases
Illinois.....		9	California.....		18
New York.....		11	Illinois.....		2
Ohio.....		3	New Jersey.....		3
			New York.....		9
Rabies in animals:			Ohio.....		1
California.....		28	Tularaemia:		
Illinois.....		8	Illinois.....		1
Louisiana.....		5	Maryland.....		1
Maryland.....		1			
New York ¹		2	Typhus fever:		
Rhode Island.....		1	Alabama.....		15
South Carolina.....		10	Louisiana.....		1
			Maryland.....		1
Rabies in man:			New York.....		1
Illinois.....		1	South Carolina.....		4
Louisiana.....		1			
Rocky Mountain spotted or tick fever:			Undulant fever:		
Maryland.....		1	California.....		9
			Illinois.....		6
Scabies:			Louisiana.....		11
Maryland.....		11	Maryland.....		3
			Michigan.....		3
Septic sore throat:			Minnesota.....		4
California.....		3	Missouri.....		8
Illinois.....		20	New Jersey.....		7
Louisiana.....		3	New York.....		17
Maryland.....		2	Ohio.....		12
Michigan.....		35	South Carolina.....		2
Missouri.....		18			
New York.....		3	Vincent's angina:		
Ohio.....		102	Illinois.....		24
South Carolina.....		10	Maryland.....		21
			New York ¹		74
Tetanus:					
California.....		3	Whooping cough:		
Louisiana.....		5	Alabama.....		58
Maryland.....		1	California.....		363
New York.....		6	Idaho.....		4
Ohio.....		3	Illinois.....		894
South Carolina.....		2	Louisiana.....		16
			Maryland.....		584
Trachoma:			Michigan.....		869
California.....		113	Minnesota.....		77
Illinois.....		2	Missouri.....		351
Louisiana.....		2	New Jersey.....		672
Maryland.....		1	New Mexico.....		11
Minnesota.....		1	New York.....		1,117
Missouri.....		86	Ohio.....		914
New Jersey.....		1	Rhode Island.....		9
New York.....		1	South Carolina.....		91
Ohio.....		1	West Virginia.....		140

¹ Exclusive of New York City.

RECIPROCAL NOTIFICATIONS

Notifications regarding communicable diseases sent during the month of October, 1931, by departments of health of States named to other State health departments

Disease	California	Connecticut	Illinois	Massachusetts	Minnesota	Missouri	New Jersey	New York
Chicken pox.....				1				
Diphtheria.....								1
Gonorrhea.....					3			
Malaria.....	1							
Poliomyelitis.....		1		1	7			1
Syphilis.....					3	1		
Tuberculosis.....	5		2		43			1
Typhoid fever.....		2			2		2	2

GENERAL CURRENT SUMMARY AND WEEKLY REPORTS FROM CITIES

The 95 cities reporting cases used in the following table are situated in all parts of the country and have an estimated aggregate population of more than 33,280,000. The estimated population of the 88 cities reporting deaths is more than 31,735,000. The estimated expectancy is based on the experience of the last nine years, excluding epidemics.

Weeks ended November 14, 1931, and November 15, 1930

	1931	1930	Estimated expectancy
<i>Cases reported</i>			
Diphtheria:			
46 States.....	2,588	1,733	
95 cities.....	611	554	960
Measles:			
45 States.....	1,825	1,773	
95 cities.....	314	572	
Meningococcus meningitis:			
46 States.....	72	96	
95 cities.....	32	34	
Poliomyelitis:			
46 States.....	241	268	
Scarlet fever:			
46 States.....	4,044	3,670	
95 cities.....	1,081	1,108	891
Smallpox:			
46 States.....	165	353	
95 cities.....	7	25	9
Typhoid fever:			
46 States.....	605	575	
95 cities.....	76	91	63
<i>Deaths reported</i>			
Influenza and pneumonia:			
88 cities.....	570	743	
Smallpox:			
88 cities.....	0	0	

City reports for week ended November 14, 1931

The "estimated expectancy" given for diphtheria, poliomyelitis, scarlet fever, smallpox, and typhoid fever is the result of an attempt to ascertain from previous occurrence the number of cases of the disease under consideration that may be expected to occur during a certain week in the absence of epidemics. It is based on reports to the Public Health Service during the past nine years. It is in most instances the median number of cases reported in the corresponding weeks of the preceding years. When the reports include several epidemics, or when for other reasons the median is unsatisfactory, the epidemic periods are excluded, and the estimated expectancy is the mean number of cases reported for the week during nonepidemic years.

If the reports have not been received for the full nine years, data are used for as many years as possible, but no year earlier than 1922 is included. In obtaining the estimated expectancy, the figures are smoothed when necessary to avoid abrupt deviation from the usual trend. For some of the diseases given in the table the available data were not sufficient to make it practicable to compute the estimated expectancy.

Division, State, and city	Chicken pox, cases reported	Diphtheria		Influenza		Measles, cases reported	Mumps, cases reported	Pneumonia, deaths reported
		Cases, estimated expectancy	Cases reported	Cases reported	Deaths reported			
NEW ENGLAND								
Maine:								
Portland.....	0	0	1	-----	0	0	0	1
New Hampshire:								
Concord.....	0	0	0	-----	0	0	0	0
Nashua.....	0	1	0	-----	0	0	0	0
Vermont:								
Barre.....	0	0	0	-----	0	0	0	0
Burlington.....	2	0	1	-----	0	10	0	0
Massachusetts:								
Boston.....	13	20	11	8	2	2	10	15
Fall River.....	2	4	4	-----	0	0	1	1
Springfield.....	0	4	0	-----	0	0	13	1
Worcester.....	0	6	1	-----	0	1	53	6
Rhode Island:								
Pawtucket.....	0	1	0	-----	0	0	0	0
Providence.....	6	9	3	-----	1	96	2	6
Connecticut:								
Bridgeport.....	1	5	0	2	2	0	0	4
Hartford.....	1	4	1	1	1	0	3	6
New Haven.....	2	1	0	-----	0	0	11	2
MIDDLE ATLANTIC								
New York:								
Buffalo.....	32	12	8	-----	0	6	0	21
New York.....	55	136	70	7	9	24	24	148
Rochester.....	3	4	0	-----	0	5	2	0
Syracuse.....	6	2	0	-----	0	1	3	2
New Jersey:								
Camden.....	0	7	6	-----	0	0	2	2
Newark.....	11	14	3	6	0	0	4	4
Trenton.....	0	2	0	-----	0	0	2	2
Pennsylvania:								
Philadelphia.....	41	58	11	4	7	3	11	28
Pittsburgh.....	27	26	18	2	6	47	51	27
Reading.....	21	2	1	-----	0	0	0	2
EAST NORTH CENTRAL								
Ohio:								
Cincinnati.....	7	11	6	2	0	1	0	4
Cleveland.....	68	32	9	9	0	5	74	11
Columbus.....	6	6	13	-----	0	1	0	0
Toledo.....	35	9	3	1	0	3	0	7
Indiana:								
Fort Wayne.....	1	4	6	-----	0	0	0	5
Indianapolis.....	39	11	2	-----	0	1	0	7
South Bend.....	-----	2	-----	-----	-----	-----	-----	-----
Terre Haute.....	4	2	1	-----	0	0	0	3
Illinois:								
Chicago.....	64	113	37	3	3	13	9	38
Peoria.....	8	-----	9	-----	0	0	0	3
Springfield.....	-----	1	-----	-----	-----	-----	-----	-----
Michigan:								
Detroit.....	25	62	45	1	0	1	4	10
Flint.....	14	4	1	-----	0	2	2	1
Grand Rapids.....	2	1	1	-----	0	0	2	0

City reports for week ended November 14, 1931—Continued

Division, State, and city	Chicken pox, cases reported	Diphtheria		Influenza		Measles, cases re- ported	Mumps, cases re- ported	Pneu- monia, deaths reported
		Cases, estimated expect- ancy	Cases reported	Cases reported	Deaths reported			
EAST NORTH CEN- TRAL—continued								
Wisconsin:								
Kenosha.....	10	1	0	-----	0	0	7	0
Madison.....	7	0	1	-----	0	0	13	0
Milwaukee.....	36	16	2	-----	0	6	20	2
Racine.....	3	2	0	-----	0	0	17	0
Superior.....	2	1	0	-----	0	0	11	0
WEST NORTH CENTRAL								
Minnesota:								
Duluth.....	17	0	0	-----	0	0	0	1
Minneapolis.....	34	24	11	-----	0	2	19	6
St. Paul.....	28	9	2	-----	0	1	2	1
Iowa:								
Davenport.....	2	2	0	-----	0	0	0	0
Des Moines.....	0	2	5	-----	1	0	0	0
Sioux City.....	13	3	9	-----	0	0	2	0
Waterloo.....	2	0	0	-----	0	0	0	0
Missouri:								
Kansas City.....	23	8	9	-----	1	4	1	4
St. Joseph.....	2	1	19	-----	0	0	0	1
St. Louis.....	16	42	20	-----	1	0	1	8
North Dakota:								
Fargo.....	4	0	0	-----	0	0	0	1
Grand Forks.....	0	0	0	-----	0	0	0	0
South Dakota:								
Aberdeen.....	12	0	0	-----	0	49	0	0
Sioux Falls.....	0	0	0	-----	0	0	0	0
Nebraska:								
Omaha.....	17	11	12	-----	0	0	0	4
Kansas:								
Topeka.....	0	2	1	-----	1	0	0	1
Wichita.....	0	3	13	-----	0	2	1	3
SOUTH ATLANTIC								
Delaware:								
Wilmington.....	0	3	0	-----	0	0	1	4
Maryland:								
Baltimore.....	17	24	8	-----	4	1	27	0
Cumberland.....	0	0	0	-----	0	0	0	1
Frederick.....	0	1	0	-----	0	0	0	0
District of Columbia:								
Washington.....	4	17	4	-----	0	0	0	8
Virginia:								
Lynchburg.....	0	4	2	-----	0	0	1	1
Norfolk.....	0	3	7	-----	0	0	0	5
Richmond.....	0	19	24	-----	0	0	0	2
Roanoke.....	0	5	3	-----	0	0	0	0
West Virginia:								
Charleston.....	22	3	3	-----	0	0	1	2
Wheeling.....	4	1	0	-----	0	1	0	2
North Carolina:								
Raleigh.....	6	3	1	-----	0	0	0	1
Wilmington.....	1	0	1	-----	0	0	0	4
Winston-Salem.....	5	5	4	-----	0	0	0	1
South Carolina:								
Charleston.....	0	2	2	-----	22	0	0	2
Columbia.....	0	1	1	-----	0	0	0	2
Greenville.....	6	-----	0	-----	0	0	0	0
Georgia:								
Atlanta.....	1	9	16	-----	8	2	1	17
Brunswick.....	0	0	0	-----	0	0	4	0
Savannah.....	0	3	0	-----	3	0	0	1
Florida:								
Miami.....	0	1	0	-----	0	23	0	1
Tampa.....	0	2	5	-----	0	0	3	1

City reports for week ended November 14, 1931—Continued

Division, State, and city	Chicken pox, cases reported	Diphtheria		Influenza		Measles, cases re- ported	Mumps, cases re- ported	Pneu- monia, deaths reported
		Cases, estimated expect- ancy	Cases reported	Cases reported	Deaths reported			
EAST SOUTH CENTRAL								
Kentucky:								
Covington.....	3	1	3	-----	0	0	0	2
Tennessee:								
Memphis.....	0	10	18	-----	0	0	1	5
Nashville.....	0	4	5	-----	0	0	0	8
Alabama:								
Birmingham.....	0	8	9	-----	0	0	0	8
Mobile.....	0	3	0	-----	0	0	0	1
Montgomery.....	1	3	4	-----	1	2	9	-----
WEST SOUTH CENTRAL								
Arkansas:								
Fort Smith.....	1	1	8	-----		0	0	-----
Little Rock.....	0	2	5	-----	0	0	0	1
Louisiana:								
New Orleans.....	0	14	13	-----	0	0	0	0
Shreveport.....	8	2	0	-----	0	8	0	2
Oklahoma:								
Muskogee.....	4	4	12	-----	0	1	0	0
Texas:								
Dallas.....	3	20	22	-----	1	1	0	2
Fort Worth.....	0	12	8	-----	0	0	0	4
Galveston.....	0	0	4	-----	0	0	0	1
Houston.....	0	8	11	-----	1	0	0	6
San Antonio.....	0	4	0	-----	0	0	0	4
MOUNTAIN								
Montana:								
Billings.....	-----	0	-----	-----	-----	-----	-----	-----
Great Falls.....	0	0	0	-----	0	0	0	1
Helena.....	0	0	0	-----	0	5	0	0
Missoula.....	0	0	0	-----	0	0	0	1
Idaho:								
Boise.....	1	0	0	-----	0	0	0	0
Colorado:								
Denver.....	54	11	7	-----	2	2	1	5
Pueblo.....	18	1	0	-----	0	0	0	1
New Mexico:								
Albuquerque.....	6	0	4	-----	0	0	1	1
Arizona:								
Phoenix.....	0	0	0	-----	0	0	0	3
Utah:								
Salt Lake City.....	70	3	0	-----	1	0	1	4
Nevada:								
Reno.....	0	0	0	-----	0	0	0	5
PACIFIC								
Washington:								
Seattle.....	79	5	9	-----		24	16	-----
Spokane.....	1	2	0	-----		0	0	-----
Tacoma.....	4	4	1	-----	1	1	12	0
Oregon:								
Portland.....	16	9	0	-----	0	2	8	3
Salem.....	1	0	0	-----	1	0	0	0
California:								
Los Angeles.....	33	37	45	-----	24	3	11	21
Sacramento.....	1	2	8	-----	0	38	0	3
San Francisco.....	21	14	2	-----	3	1	3	5

City reports for week ended November 14, 1931—Continued

Division, State, and city	Scarlet fever		Smallpox			Tuber- culosis, deaths re- ported	Typhoid fever			Whoop- ing cough, cases re- ported	Deaths, all causes
	Cases, estimated expect- ancy	Cases re- ported	Cases, estimated expect- ancy	Cases re- ported	Deaths re- ported		Cases, estimated expect- ancy	Cases re- ported	Deaths re- ported		
NEW ENGLAND											
Maine:											
Portland.....	2	0	0	0	0	0	1	0	0	5	13
New Hampshire:											
Concord.....	0	0	0	0	0	0	0	0	0	0	13
Nashua.....	0	1	0	0	0	0	0	0	0	1	
Vermont:											
Barre.....	0	3	0	0	0	0	0	0	0	1	3
Burlington.....	1	0	0	0	0	0	0	0	0	0	3
Massachusetts:											
Boston.....	50	50	0	0	0	8	2	1	0	8	183
Fall River.....	3	7	0	0	0	2	0	0	0	1	25
Springfield.....	5	1	0	0	0	5	0	0	0	5	31
Worcester.....	10	15	0	0	0	1	0	1	1	5	
Rhode Island:											
Pawtucket.....	1	0	0	0	0	0	0	0	0	0	14
Providence.....	8	9	0	0	0	3	0	0	1	5	57
Connecticut:											
Bridgeport.....	5	2	0	0	0	0	0	0	0	3	34
Hartford.....	4	3	0	0	0	1	0	0	0	3	46
New Haven.....	2	2	0	0	0	1	0	1	0	1	42
MIDDLE ATLANTIC											
New York:											
Buffalo.....	19	31	0	0	0	4	0	2	1	9	118
New York.....	82	86	0	0	0	97	15	8	1	88	1,441
Rochester.....	5	34	0	0	0	2	0	0	0	7	70
Syracuse.....	5	14	0	0	0	1	0	0	0	13	51
New Jersey:											
Camden.....	3	9	0	0	0	0	0	0	0	0	34
Newark.....	10	5	0	0	0	10	0	0	0	39	75
Trenton.....	2	7	0	0	0	3	1	0	0	0	29
Pennsylvania:											
Philadelphia.....	55	64	0	0	0	21	5	1	1	123	447
Pittsburgh.....	36	43	0	0	0	8	1	3	1	27	191
Reading.....	1	0	0	0	0	0	0	0	0	1	22
EAST NORTH CENTRAL											
Ohio:											
Cincinnati.....	16	34	0	0	0	8	1	3	0	0	143
Cleveland.....	27	52	0	0	0	11	1	0	0	117	176
Columbus.....	9	12	0	0	0	5	0	3	0	3	81
Toledo.....	10	7	0	1	0	7	1	0	0	26	80
Indiana:											
Fort Wayne.....	2	1	0	0	0	1	1	3	0	4	28
Indianapolis.....	13	9	1	0	0	3	0	2	0	7	
South Bend.....	4		0				0				
Terre Haute.....	3	1		0	0	0	0	0	1	0	21
Illinois:											
Chicago.....	88	130	0	0	0	32	4	3	1	141	603
Peoria.....		0		0	0	0		0	0	2	29
Springfield.....	2		0				0				
Michigan:											
Detroit.....	68	67	0	0	0	18	2	4	0	60	212
Flint.....	11	15	1	0	0	1	1	0	0	3	16
Grand Rapids.....	9	6	0	0	0	0	0	0	0	5	25
Wisconsin:											
Kenosha.....	1	1	0	0	0	0	0	0	0	0	7
Madison.....	2	1	0	0			0	1		0	
Milwaukee.....	17	13	0	0	0	2	0	0	0	63	86
Racine.....	3	1	0	0	0	1	1	0	0	1	6
Superior.....	2	0	0	0	0	1	0	0	0	0	8

City reports for week ended November 14, 1931—Continued

Division, State, and city	Scarlet fever		Smallpox			Tuber- culosis, deaths re- ported	Typhoid fever			Whoop- ing cough, cases re- ported	Deaths, all causes
	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported		Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported		
WEST NORTH CENTRAL											
Minnesota:											
Duluth.....	9	1	0	0	0	0	0	0	0	0	23
Minneapolis.....	38	14	0	0	0	1	0	1	0	11	87
St. Paul.....	15	1	0	0	0	3	1	0	0	5	44
Iowa:											
Davenport.....	0	1	0	1			0	0		0	
Des Moines.....	7	7	1	0			0	0		0	24
Sioux City.....	2	5	0	0			0	0		1	
Waterloo.....	1	0	0	0			0	0		4	
Missouri:											
Kansas City.....	13	17	0	0	0	5	0	1	0	10	98
St. Joseph.....	3	1	0	0	0	0	0	1	0	0	11
St. Louis.....	35	17	0	0	0	12	3	4	1	37	215
North Dakota:											
Fargo.....	3	0	0	0	0	0	0	0	0	3	9
Grand Forks.....	1	0	0	0			0	0		0	
South Dakota:											
Aberdeen.....	1	6	0	0			0	0		3	
Sioux Falls.....	2	0	0	0			0	0		0	7
Nebraska:											
Omaha.....	5	5	1	2	0	2	0	0	0	5	54
Kansas:											
Topeka.....	3	2	1	0	0	0	0	0	0	1	16
Wichita.....	4	6	0	0	0	0	1	0	0	0	35
SOUTH ATLANTIC											
Delaware:											
Wilmington.....	2	1	0	0	0	0	0	1	0	2	26
Maryland:											
Baltimore.....	16	24	0	0	0	12	3	6	1	114	221
Cumberland.....	0	8	0	0	0	0	0	0	0	0	12
Frederick.....	0	0	0	0	0	0	0	0	0	0	3
District of Col.:											
Washington.....	17	21	0	0	0	15	2	2	0	19	153
Virginia:											
Lynchburg.....	1	3	0	0	0	0	0	0	0	0	7
Norfolk.....	3	8	0	0	0	2	0	0	0	0	
Richmond.....	9	18	0	0	0	3	0	0	0	2	62
Roanoke.....	4	1	0	0	0	1	0	0	0	0	11
West Virginia:											
Charleston.....	2	2	0	0	0	2	0	12	1	6	33
Wheeling.....	2	4	0	0	0	2	0	0	0	2	18
North Carolina:											
Raleigh.....	1	5	0	0	0	0	0	0	0	0	10
Wilmington.....	1	2	0	0	0	0	0	0	0	5	12
Winston-Salem.....	4	4	0	0	0	1	0	0	0	17	22
South Carolina:											
Charleston.....	1	8	0	0	0	2	1	3	0	1	32
Columbia.....	1	1	0	0	0	0	0	0	0	0	5
Greenville.....	1	0	0	0	0	0	0	0	0	0	
Georgia:											
Atlanta.....	7	14	0	0	0	3	0	3	1	1	85
Brunswick.....	0	0	0	0	0	0	0	0	0	0	3
Savannah.....	1	5	0	0	0	4	0	1	0	0	20
Florida:											
Miami.....	1	2	0	0	0	2	0	0	0	0	26
Tampa.....	1	0	0	0	0	1	0	0	0	0	16
EAST SOUTH CENTRAL											
Kentucky:											
Covington.....	3	11	0	0	0	1	0	0	0	0	14
Tennessee:											
Memphis.....	7	11	0	1	0	2	2	2	1	23	69
Nashville.....	3	0	0	0	0	4	2	2	0	3	63
Alabama:											
Birmingham.....	5	1	0	0	0	3	1	0	0	14	49
Mobile.....	1	6	0	0	0	1	0	0	0	0	17
Montgomery.....	1	5	0	0			0	0		0	

1 case nonresident.

City reports for week ended November 14, 1931—Continued

Division, State, and city	Scarlet fever		Smallpox			Tuber- culosis, deaths re- ported	Typhoid fever			Whoop- ing cough, cases re- ported	Deaths, all causes
	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported		Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported		
WEST SOUTH CENTRAL											
Arkansas:											
Fort Smith.....	0	3	0	0			0	0		3	
Little Rock.....	2	2	0	0	0	3	0	0	0	0	5
Louisiana:											
New Orleans.....	8	14	0	0	0	0	2	4	0	0	
Shreveport.....	2	2	0	0	0	1	1	0	0	1	39
Oklahoma:											
Muskogee.....	2	2	0	0			0	0		1	
Texas:											
Dallas.....	8	10	1	0	0	2	1	3	1	8	59
Fort Worth.....	4	8	1	1	0	1	0	0	0	0	32
Galveston.....	0	1	0	0	0	0	0	0	0	0	14
Houston.....	3	4	0	1	0	6	0	0	0	2	76
San Antonio.....	1	0	0	0	0	7	0	0	1	0	56
MOUNTAIN											
Montana:											
Billings.....	0		0				0				
Great Falls.....	2	4	1	0	0	0	0	0	0	0	5
Helena.....	0	3	0	0	0	0	0	0	0	0	4
Missoula.....	1	1	0	0	0	0	0	0	0	0	8
Idaho:											
Boise.....	0	1	0	1	0	0	0	0	0	0	5
Colorado:											
Denver.....	11	21	0	0	0	7	1	0	0	14	70
Pueblo.....	0	0	0	0	0	0	1	0	0	0	9
New Mexico:											
Albuquerque.....	1	2	0	0	0	3	0	2	0	0	7
Arizona:											
Phoenix.....	0	0	0	0	0	2	0	0	0	0	
Utah:											
Salt Lake City.....	3	6	0	0	0	1	1	0	0	3	44
Nevada:											
Reno.....	1	0	0	0	0	0	0	0	0	0	8
PACIFIC											
Washington:											
Seattle.....	8	14	1	0			1	1		4	
Spokane.....	6	2	1	1			0	0		0	
Tacoma.....	3	1	1	0	0	0	0	0	0	0	25
Oregon:											
Portland.....	7	4	2	0	0	0	1	1	0	7	53
Salem.....	0	0	0	0	0	0	0	0	0	0	
California:											
Los Angeles.....	21	27	0	0	0	19	1	0	0	9	260
Sacramento.....	3	0	0	0	0	1	0	0	1	0	29
San Francisco.....	13	5	0	1	0	9	1	4	0	3	134

City reports for week ended November 14, 1931—Continued

Division, State, and city	Meningo-coccus meningitis		Lethargic encephalitis		Pellagra		Poliomyelitis (infantile paralysis)		
	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases estimated expectancy	Cases	Deaths
NEW ENGLAND									
Massachusetts:									
Boston.....	2	1	0	0	0	0	2	2	0
Fall River.....	0	1	0	0	0	0	0	0	0
Springfield.....	0	0	0	0	0	0	0	1	0
Worcester.....	0	0	0	0	0	0	0	0	1
Rhode Island:									
Providence.....	0	0	0	0	0	0	1	2	0
Connecticut:									
Hartford.....	0	0	0	0	0	0	0	0	1
New Haven.....	1	1	0	0	0	0	0	0	0
MIDDLE ATLANTIC									
New York:									
New York ¹	6	3	3	4	0	0	6	13	3
Rechester.....	1	0	0	0	0	0	1	0	0
New Jersey:									
Newark.....	0	0	0	0	0	0	0	4	0
Trenton.....	0	0	0	0	0	0	0	1	0
Pennsylvania:									
Philadelphia.....	0	0	0	0	0	0	0	5	0
Pittsburgh.....	1	0	0	0	0	0	0	1	0
Reading.....	0	1	0	0	0	0	0	0	0
EAST NORTH CENTRAL									
Ohio:									
Cincinnati.....	0	1	0	0	0	0	1	1	0
Cleveland.....	1	0	1	0	0	2	1	2	0
Indiana:									
Indianapolis.....	1	1	0	0	0	0	0	0	0
Illinois:									
Chicago.....	2	0	0	0	0	0	2	7	0
Michigan:									
Detroit.....	0	0	1	0	0	0	1	2	0
Flint.....	0	1	0	0	0	0	0	1	0
Wisconsin:									
Superior.....	0	0	0	0	0	0	0	1	0
WEST NORTH CENTRAL									
Minnesota:									
Duluth.....	0	0	0	0	0	0	0	1	1
Minneapolis.....	1	1	0	0	0	0	0	8	0
St. Paul.....	1	0	0	0	0	0	0	7	1
Missouri:									
St. Louis.....	2	1	0	0	0	0	1	0	0
SOUTH ATLANTIC¹									
Maryland:									
Baltimore.....	1	1	0	0	0	0	1	0	1
District of Columbia:									
Washington.....	2	0	0	0	0	0	0	0	0
West Virginia:									
Wheeling.....	0	1	0	0	0	0	1	0	0
North Carolina:									
Raleigh.....	1	0	0	0	1	0	0	0	0
Winston-Salem.....	0	0	0	0	0	1	0	0	0
South Carolina:									
Charleston.....	0	0	0	0	3	1	0	1	0
Florida:									
Miami.....	0	0	0	0	0	1	0	0	0
EAST SOUTH CENTRAL									
Alabama:									
Birmingham.....	2	1	0	0	0	0	0	1	0
Montgomery.....	0	0	0	0	1	0	0	0	0

¹ Typhus fever, 5 cases: 1 case at New York City, N. Y.; 1 case at Atlanta, Ga.; and 3 cases at Savannah, Ga.² Nonresident.

City reports for week ended November 14, 1931—Continued

Division, State, and city	Meningo-coccus meningitis		Lethargic encephalitis		Pellagra		Poliomyelitis (infantile paralysis)		
	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases estimated expectancy	Cases	Deaths
WEST SOUTH CENTRAL									
Arkansas:									
Little Rock.....	0	0	0	0	0	3	0	0	0
Louisiana:									
New Orleans.....	3	2	0	0	0	0	0	0	0
Texas:									
Dallas.....	1	0	1	1	1	1	0	0	0
Fort Worth.....	0	0	0	0	0	1	0	0	0
MOUNTAIN									
Colorado:									
Denver.....	1	0	0	0	0	0	0	0	0
PACIFIC									
California:									
Los Angeles.....	2	0	0	0	1	1	0	1	0
San Francisco.....	0	0	1	1	0	0	0	1	1

The following table gives the rates per 100,000 population for 98 cities for the 5-week period ended November 14, 1931, compared with those for a like period ended November 15, 1930. The population figures used in computing the rates are estimated mid-year populations for 1930 and 1931, respectively, derived from the 1930 census. The 98 cities reporting cases have an estimated aggregate population of more than 33,000,000. The 91 cities reporting deaths have more than 31,500,000 estimated population.

*Summary of weekly reports from cities, October 11 to November 14, 1931—Annual rates per 100,000 population compared with rates for the corresponding period of 1930*¹

DIPHTHERIA CASE RATES

	Week ended—									
	Oct. 17, 1931	Oct. 18, 1930	Oct. 24, 1931	Oct. 25, 1930	Oct. 31, 1931	Nov. 1, 1930	Nov. 7, 1931	Nov. 8, 1930	Nov. 14, 1931	Nov. 15, 1930
98 cities.....	70	70	82	77	² 85	90	³ 94	⁴ 82	⁵ 96	89
New England.....	46	70	87	106	63	92	84	85	50	82
Middle Atlantic.....	34	33	32	34	41	44	32	33	52	44
East North Central.....	61	91	74	105	82	130	97	109	⁶ 76	128
West North Central.....	128	78	145	66	174	93	155	⁷ 77	184	107
South Atlantic.....	170	109	223	106	146	116	182	66	146	120
East South Central.....	233	143	122	179	204	293	⁸ 289	215	227	185
West South Central.....	101	118	142	80	162	101	203	199	233	160
Mountain.....	52	18	35	62	⁹ 9	35	¹⁰ 49	123	¹¹ 63	26
Pacific.....	47	87	76	101	92	67	¹⁰ 104	93	127	63

MEASLES CASE RATES

98 cities.....	26	35	32	36	² 37	59	³ 39	⁴ 59	⁵ 49	91
New England.....	70	48	180	75	115	138	161	128	238	172
Middle Atlantic.....	20	22	19	29	30	27	27	34	38	68
East North Central.....	13	14	18	16	18	18	18	16	⁶ 19	17
West North Central.....	10	143	6	143	11	294	15	⁷ 282	17	502
South Atlantic.....	14	8	10	14	12	20	12	48	10	26
East South Central.....	0	6	17	24	23	42	⁸ 13	84	12	18
West South Central.....	10	3	24	3	17	0	27	0	24	0
Mountain.....	78	194	17	141	⁹ 63	414	¹⁰ 157	229	¹¹ 63	308
Pacific.....	96	57	69	18	125	24	¹⁰ 109	24	135	32

SCARLET FEVER CASE RATES

98 cities.....	101	120	126	121	² 139	161	³ 170	⁴ 169	⁵ 169	187
New England.....	137	162	195	157	142	213	202	225	221	276
Middle Atlantic.....	74	85	100	78	127	132	134	133	131	126
East North Central.....	139	177	140	171	161	218	239	231	⁶ 212	287
West North Central.....	94	116	119	116	136	163	140	⁷ 140	149	143
South Atlantic.....	124	126	156	162	158	166	190	158	239	154
East South Central.....	70	132	145	149	198	245	⁸ 107	293	198	275
West South Central.....	41	73	57	70	47	66	95	91	122	118
Mountain.....	44	38	174	167	⁹ 172	344	¹⁰ 275	282	¹¹ 322	388
Pacific.....	110	51	141	89	133	47	¹⁰ 127	95	96	99

¹ The figures given in this table are rates per 100,000 population, annual basis, and not the number of cases reported. Populations used are estimated as of July 1, 1931, and 1930, respectively.

² Boise, Idaho, not included.

³ Covington, Ky., Billings, Mont., Pueblo, Colo., and Spokane, Wash., not included.

⁴ Waterloo, Iowa, not included.

⁵ South Bend, Ind., Springfield, Ill., and Billings, Mont., not included.

⁶ South Bend, Ind., and Springfield, Ill., not included.

⁷ Covington, Ky., not included.

⁸ Billings, Mont., and Pueblo, Colo., not included.

⁹ Billings, Mont., not included.

¹⁰ Spokane, Wash., not included.

Summary of weekly reports from cities, October 11 to November 14, 1931—Annual rates per 100,000 population compared with rates for the corresponding period of 1930—Continued

SMALLPOX CASE RATES

	Week ended—									
	Oct. 17, 1931	Oct. 18, 1930	Oct. 24, 1931	Oct. 25, 1930	Oct. 31, 1931	Nov. 1, 1930	Nov. 7, 1931	Nov. 8, 1930	Nov. 14, 1931	Nov. 15, 1930
98 cities.....	1	2	2	2	2	2	2	2	1	4
New England.....	0	0	0	0	0	0	0	0	0	0
Middle Atlantic.....	0	0	0	0	0	0	0	0	0	0
East North Central.....	0	4	0	2	1	1	0	4	0	2
West North Central.....	6	0	10	0	6	19	11	6	4	21
South Atlantic.....	0	0	4	0	0	0	0	0	0	0
East South Central.....	6	0	0	0	0	0	13	0	6	0
West South Central.....	0	3	3	7	0	3	2	7	3	3
Mountain.....	9	26	0	0	10	9	10	9	9	0
Pacific.....	2	0	12	18	12	14	10	6	4	18

TYPHOID FEVER CASE RATES

98 cities.....	18	16	22	17	16	14	12	11	12	15
New England.....	10	10	29	20	5	5	10	5	7	24
Middle Atlantic.....	16	10	24	12	11	9	11	5	6	4
East North Central.....	8	7	12	5	16	7	6	9	11	5
West North Central.....	33	15	19	8	19	14	21	4	13	19
South Atlantic.....	49	62	26	40	38	32	30	32	36	34
East South Central.....	52	42	105	84	6	102	7	24	23	48
West South Central.....	41	21	37	24	17	14	30	28	24	87
Mountain.....	9	35	17	79	10	0	10	18	10	26
Pacific.....	4	22	6	16	25	18	10	16	10	10

INFLUENZA DEATH RATES

91 cities.....	5	5	4	5	5	9	7	9	5	9
New England.....	2	7	2	2	10	2	12	2	14	5
Middle Atlantic.....	6	4	2	6	4	9	8	12	10	8
East North Central.....	2	4	3	3	6	6	5	6	2	9
West North Central.....	0	3	3	9	0	9	6	2	6	6
South Atlantic.....	0	6	10	4	4	18	4	10	6	6
East South Central.....	6	0	13	6	6	13	7	26	0	30
West South Central.....	14	7	17	7	0	21	17	14	7	28
Mountain.....	35	9	9	9	18	18	20	9	27	9
Pacific.....	5	7	7	7	2	2	5	7	12	5

PNEUMONIA DEATH RATES

91 cities.....	64	72	60	86	82	99	87	101	86	115
New England.....	75	87	50	99	90	104	67	89	101	114
Middle Atlantic.....	63	70	78	102	96	109	107	116	106	129
East North Central.....	45	50	52	52	63	87	64	74	50	85
West North Central.....	100	54	91	60	75	96	80	87	88	78
South Atlantic.....	67	96	67	136	113	134	117	152	97	172
East South Central.....	89	162	95	84	101	65	123	136	151	186
West South Central.....	59	82	97	125	86	103	66	110	55	103
Mountain.....	87	194	78	79	54	167	128	194	152	220
Pacific.....	65	65	55	60	46	32	53	42	70	67

² Boise, Idaho, not included.

³ Covington, Ky., Billings, Mont., Pueblo, Colo., and Spokane, Wash., not included.

⁴ Waterloo, Iowa, not included.

⁵ South Bend, Ind., and Springfield, Ill., not included.

⁶ South Bend, Ind., Springfield, Ill., and Billings, Mont., not included.

⁷ Covington, Ky., not included.

⁸ Billings, Mont., and Pueblo, Colo., not included.

⁹ Billings, Mont., not included.

¹⁰ Spokane, Wash., not included.

¹¹ Covington, Ky., Billings, Mont., and Pueblo, Colo., not included.

FOREIGN AND INSULAR

CANADA

Provinces—Communicable diseases—Week ended November 7, 1931.—The Department of Pensions and National Health of Canada reports cases of certain communicable diseases for the week ended November 7, 1931, as follows:

Province	Cerebro-spinal fever	Influenza	Poliomy-elitis	Small-pox	Typhoid fever
Prince Edward Island ¹					
Nova Scotia		2			1
New Brunswick			1		32
Quebec			29		37
Ontario	1	1	6	3	3
Manitoba	1				1
Saskatchewan	1			1	2
Alberta			1	2	
British Columbia			2	1	
Total	3	3	39	7	76

¹ No case of any disease included in the table was reported during the week.

Quebec Province—Communicable diseases—Week ended November 7, 1931.—The Bureau of Health of the Province of Quebec, Canada, reports cases of certain communicable diseases for the week ended November 7, 1931, as follows:

Disease	Cases	Disease	Cases
Chicken pox	62	Puerperal fever	1
Diphtheria	94	Scarlet fever	78
Erysipelas	1	Tuberculosis	26
Measles	84	Typhoid fever	32
Mumps	24	Whooping cough	21
Poliomyelitis	29		

LATVIA

Communicable diseases—September, 1931.—Cases of certain communicable diseases were reported in Latvia during the month of September, 1931, as follows:

Disease	Cases	Disease	Cases
Cerebrospinal meningitis	3	Mumps	51
Diphtheria	53	Poliomyelitis	5
Dysentery	7	Scarlet fever	46
Erysipelas	27	Tetanus	2
Influenza	64	Trachoma	52
Leprosy	1	Typhoid fever	141
Lethargic encephalitis	1	Whooping cough	47
Measles	6		

VIRGIN ISLANDS

Communicable diseases—October, 1931.—During the month of October, 1931, cases of certain communicable diseases were reported in the Virgin Islands as follows:

St. Thomas and St. John:	Cases	St. Croix:	Cases
Gonorrhea.....	5	Dengue.....	2
Syphilis.....	1	Gonorrhea.....	1
Tuberculosis.....	4	Pellagra.....	1
		Syphilis.....	2
		Tuberculosis.....	1

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER

From medical officers of the Public Health Service, American consuls, International Office of Public Hygiene, Pan American Sanitary Bureau, health section of the League of Nations, and other sources. The reports contained in the following tables must not be considered as complete or final as regards either the list of countries included or the figures for the particular countries for which reports are given.

CHOLERA

[C indicates cases; D, deaths; P, present]

Place	May 3-30, 1931	May 31-June 27, 1931	June 28-July 25, 1931	July 26-Aug. 22, 1931	Week ended—									
					September, 1931					October, 1931				
					Aug. 26, 1931	5	12	19	26	3	10	17	24	31
Ceylon: Colombo.....	C	1	1	3										
China:	D	1	1	3										
Canton.....	C	2	1											
Shanghai.....	C	1												
Swatow.....	C													
Tientsin.....	C	1	10	7										
India.....	C	1	1											
Bombay.....	C	13,094	18,001	22,074	36,514	10,734	9,834	9,740	8,915	7,553	10,172			
Calcutta.....	C	7,270	10,337	12,093	20,276	6,044	5,518	5,321	4,800	3,716	4,808			
Chittagong.....	C			23	44	27	5	5	1	1	2			
Karikal.....	C			16	25	9	5	2	1	1	1			
Madras.....	C	265	292	237	110	10	8	15	18	23	3			
Moulmein.....	C	149	168	155	30	4	2	3	6	6	12			
Negapatam.....	C													
Rangoon.....	C													
Singapore.....	C													
Visagapatam.....	C													
India (French).....	C													
Chanderagor.....	C	4	3	5	7		1	1	1					

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued

CHOLERA—Continued

[C indicates cases; D, deaths; P, present]

Place	May 3-30, 1931	May 31- June 27, 1931	June 28- July 26, 1931	July 26- Aug. 22, 1931	Week ended—													
					September, 1931				October, 1931				November, 1931					
					Aug. 29, 1931													
					5	12	19	26	3	10	17	24	31	7	14	21		
On vessel:																		
S. S. Arankola, at Rangoon, from Calcutta.....	1	1																
S. S. City of Eastborne, at Calcutta, from Cocanada.....		1																
S. S. Turea, at Penang, from Calcutta.....		1																
S. S. Bandar Shalpour, at Bushire, Persia, from Basra.....			1															
S. S. Kohistan, at Basra, from Bushire, Persia.....			1															
S. S. Cathay, at Kobe, Japan, from Shanghai.....			2															
S. S. Kasagi Maru, at Moli, from Shanghai.....			4															
S. S. Ankoo, at Nagasaki, from Shanghai.....			1			1	2											
						1												

1 Reports incomplete.

PLAGUE

Place	May 3-30, 1931	May 31-June 27, 1931	June 28-July 25, 1931	July 26-Aug. 22, 1931	Week ended—									
					September, 1931					October, 1931				
					Aug. 20, 1931	5	12	19	26	3	10	17	24	31
Algeria:														
Algiers.....	C	1	1	2										
Bone.....	C		1	2										
Philippeville.....	D		1	1										
Argentina: San Juan Province.....	C		P											
Belgian Congo.....	C	1												
British East Africa (see also table below):	D													
Tanganyika.....	C	46	17	6	8			4	8	2				
Uganda.....	C	30	10	6	4			4	4					
Ceylon: Colombo.....	C	138	238	418	285	69	69	84	83	62				
Plague-infected rats.....	D	126	266	400	281	61	56	107	83	63				
China:	D	3	2	1	6	1	1	1	1	1	2			
Amoy.....	C	5	2	1	6			1		1	1			
Shansi Province ¹	C	1												
Shensi Province.....	C													
Dutch East Indies:														
Batavia and West Java.....	C	60	116	75	68	19	8	20	21	31				1
East Java and Madura.....	D	69	66	75	58	19	8	20	21	31				
Java and Madura.....	D	170	182	212	205	68	51	56	77	69	85	94		
Egypt:														
Alexandria.....	C		4	12	9	2	2	1	1				1	1
Assout.....	D		4	5	3	1								
Beni Suef.....	D	18	11											
Beheira.....	D	5	1											
Dakahlia.....	D	3												

¹ On July 27, 1931, 1,259 cases of plague were reported in Chiohe and Changchow, China, since April. On September 19, 1931, 18 deaths were reported in Changchuanpu and new cases in Kaitung and Fengtien.

² On October 17, 1931, plague epidemic was reported in western Shansi Province, China, with 2,000 deaths at Hsinghsien.

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued

PLAGUE—Continued

[C indicates cases; D, deaths; P, present]

Place	May 3-30, 1931	May 31-June 20, 1931	June 21-June 27, 1931	July 28-Aug. 2, 1931	Week ended—									
					September, 1931					October, 1931				
					Aug. 28, 1931	5	12	19	26	3	10	17	24	31
November, 1931														
Egypt—Continued.														
Delirium	10	3												
Gharbieh	4	1												
Girga	7	1												
Kena	1													
Minieh	9	3												
Port Said	1	2												
Tanta														
France: Rouen-Devilleles														
Hawaii Territory:														
Hawaii—Hamakua—Plague-infected rats.	1													
Hawaii—Maui Island—														
Hawaii—Hailmaile—Plague-infected rats.														
Kula District														
Makawao—Plague-infected rats.														
Pala—Plague-infected rats.														
Paunalo—Plague-infected rats.														
India	752	88	221	684	282	337	554	659	723	527				
Bassein	692	31	128	440	146	179	238	269	355	222				
Bombay	1	1	4	2										
Bombay—Plague-infected rats.	1	1	3	2										
Burma	8	12	48	47										
Madras Presidency	94	37	10	9	23	17	7	10	9	9	12	4		
Moulmein	2	6	10	16										
	1	1	20	4	9	75	88	114	62	3	3	30		
			9	4	4	51	52	55	16	1	1	39		
			9	5	4	5	3	2	2					
			1	4	P	4								

[illegible]

1 Reports incomplete.

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued

SMALLPOX—Continued

(C indicates cases; D, deaths; P, present)

Place	May 3-30, 1931	May 31-June 27, 1931	June 28-June 25, 1931	Week ended—												November, 1931
				August, 1931				September, 1931				October, 1931				
				1	8	15	22	29	5	12	19	26	3	10	17	
India (French)—Continued.																
Karikal.....	4	6	4	4	1	1	3	2	2	2	5	5	3	3	3	3
Pondicherry Province.....	4	6	4	4	1	1	2	2	1	1	2	1	3	3	3	3
India (Portuguese)	11	7	28	11	6	1	1	3	1	18	1	4	14	4	4	4
Indo-China (see also table below):	3	7	23	11	6	1	1	3	1	16	1	4	12	4	1	1
Phnompenh.....	1															
Indo-China (see also table below):																
Phnompenh.....	1	2														
Saigon and Cholon.....	2															
Indo-China (see also table below):	1															
Phnompenh.....	1															
Saigon and Cholon.....	1															
Indo-China (see also table below):	3	1														
Phnompenh.....	3															
Saigon and Cholon.....	2															
Indo-China (see also table below):	1															
Phnompenh.....	1															
Saigon and Cholon.....	1															
Indo-China (see also table below):	3	1														
Phnompenh.....	2															
Saigon and Cholon.....	2															
Indo-China (see also table below):	1															
Phnompenh.....	1															
Saigon and Cholon.....	1															
Indo-China (see also table below):	3	1														
Phnompenh.....	2															
Saigon and Cholon.....	2															
Indo-China (see also table below):	1															
Phnompenh.....	1															
Saigon and Cholon.....	1															
Indo-China (see also table below):	3	1														
Phnompenh.....	2															
Saigon and Cholon.....	2															
Indo-China (see also table below):	1															
Phnompenh.....	1															
Saigon and Cholon.....	1															
Indo-China (see also table below):	3	1														
Phnompenh.....	2															
Saigon and Cholon.....	2															
Indo-China (see also table below):	1															
Phnompenh.....	1															
Saigon and Cholon.....	1															
Indo-China (see also table below):	3	1														
Phnompenh.....	2															
Saigon and Cholon.....	2															
Indo-China (see also table below):	1															
Phnompenh.....	1															
Saigon and Cholon.....	1															
Indo-China (see also table below):	3	1														
Phnompenh.....	2															
Saigon and Cholon.....	2															
Indo-China (see also table below):	1															
Phnompenh.....	1															
Saigon and Cholon.....	1															
Indo-China (see also table below):	3	1														
Phnompenh.....	2															
Saigon and Cholon.....	2															
Indo-China (see also table below):	1															
Phnompenh.....	1															
Saigon and Cholon.....	1															
Indo-China (see also table below):	3	1														
Phnompenh.....	2															
Saigon and Cholon.....	2															
Indo-China (see also table below):	1															
Phnompenh.....	1															
Saigon and Cholon.....	1															
Indo-China (see also table below):	3	1														
Phnompenh.....	2															
Saigon and Cholon.....	2															
Indo-China (see also table below):	1															
Phnompenh.....	1															
Saigon and Cholon.....	1															
Indo-China (see also table below):	3	1														
Phnompenh.....	2															
Saigon and Cholon.....	2															
Indo-China (see also table below):	1															
Phnompenh.....	1															
Saigon and Cholon.....	1															
Indo-China (see also table below):	3	1														
Phnompenh.....	2															
Saigon and Cholon.....	2															
Indo-China (see also table below):	1															
Phnompenh.....	1															
Saigon and Cholon.....	1															
Indo-China (see also table below):	3	1														
Phnompenh.....	2															
Saigon and Cholon.....	2															
Indo-China (see also table below):	1															
Phnompenh.....	1															
Saigon and Cholon.....	1															
Indo-China (see also table below):	3	1														
Phnompenh.....	2															
Saigon and Cholon.....	2															
Indo-China (see also table below):	1															
Phnompenh.....	1															
Saigon and Cholon.....	1															
Indo-China (see also table below):	3	1														
Phnompenh.....	2															
Saigon and Cholon.....	2															
Indo-China (see also table below):	1															
Phnompenh.....	1															
Saigon and Cholon.....	1															
Indo-China (see also table below):	3	1														
Phnompenh.....	2															
Saigon and Cholon.....	2															
Indo-China (see also table below):	1															
Phnompenh.....	1															
Saigon and Cholon.....	1															
Indo-China (see also table below):	3	1														
Phnompenh.....	2															
Saigon and Cholon.....	2															
Indo-China (see also table below):	1															
Phnompenh.....	1															
Saigon and Cholon.....	1															
Indo-China (see also table below):	3	1														
Phnompenh.....	2															
Saigon and Cholon.....	2															
Indo-China (see also table below):	1															
Phnompenh.....	1															
Saigon and Cholon.....	1															
Indo-China (see also table below):	3	1														
Phnompenh.....	2															
Saigon and Cholon.....	2															
Indo-China (see also table below):	1															
Phnompenh.....	1															
Saigon and Cholon.....	1															
Indo-China (see also table below):	3	1														
Phnompenh.....	2															
Saigon and Cholon.....	2															
Indo-China (see also table below):	1															
Phnompenh.....	1															
Saigon and Cholon.....	1															
Indo-China (see also table below):	3	1														
Phnompenh.....	2															
Saigon and Cholon.....	2															
Indo-China (see also table below):	1															
Phnompenh.....	1															
Saigon and Cholon.....	1															
Indo-China (see also table below):	3	1														
Phnompenh.....	2															
Saigon and Cholon.....	2															
Indo-China (see also table below):	1															
Phnompenh.....	1															
Saigon and Cholon.....	1															
Indo-China (see also table below):	3	1														
Phnompenh.....	2															
Saigon and Cholon.....	2															

Place	April, 1931		May, 1931		June, 1931		July, 1931		August, 1931		September, 1931		October, 1931	
	1-10	11-20	21-30	1-10	11-20	21-30	1-10	11-20	21-30	1-10	11-20	21-30	1-10	11-20
Spain.....														
Straits Settlements.....														
Sudan (Anglo-Egyptian).....														
Syria (see table below).....														
Turkey (see table below).....														
Union of Socialist Soviet Republics (see table below).....														
Union of South Africa:.....														
Cape Provinces.....														
Natal.....														
Orange Free State.....														
Transvaal.....														
Upper Volta.....														
On vessel:.....														
S. S. Taif (pilgrim ship) at Suakin from Jeddah.....														
S. S. Talodi at Suakin.....														
Indo-China (see also table above).....														
Ivory Coast.....														
Syria: Beirut.....														
China: Harbin (see also table above).....														
Chosen.....														
France.....														
Greece.....														
Mexico (see also table above).....														
Morocco.....														
Rumania.....														

1 Imported case.

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued
TYPHUS FEVER

[C indicates cases; D, deaths; P, present]

Place	May 3-30, 1931	May 31- June 27, 1931	June 28- July 25, 1931	Week ended—												No- ven- ber 7, 1931
				August, 1931					September, 1931							
				1	8	15	22	29	5	12	19	26	3	10	17	24
Algeria:																
Algiers	C	7	9	2												
Bone	C															
Constantine Department	C	22	26	3												
Oran	C	2	2													
Australia, Western	C	1														
Bulgaria	C	16	30													
	D	4	6													
China:																
Manchuria—Harbin	C		16	3												
Shanghai	C															
Chosen (see table below)																
Colombia: Cali	D															
Czechoslovakia (see table below)																
Egypt:																
Alexandria	C		3													
Cairo	C															
Charbiel	C															
Great Britain: Scotland—Fife County	C	1														
Greece (see table below)																
Guatemala (see table below)																
Irish Free State:																
Baghdad	D	2														
	D	2														
Irish Free State:																
Cork County—																
Schull	C															
Skibbereen	C		2	1												
Kerry County—																
Dingle	C	1														
Lislow	C		1													
Kildare County—Naas	C															
Limerick County—																
Croom	C															
Glin	C															
Limerick	C			2												

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued

YELLOW FEVER

[C indicates cases; D, deaths; P, present]

Place	Week ended—																
	May 3-30, 1931	May 31- June 27, 1931	June 28- July 25, 1931	July 26- Aug. 22, 1931	September, 1931							October, 1931			November, 1931		
					Aug. 29, 1931	5	12	19	26	3	10	17	24	31	7	14	
Brazil:																	
Alagoas State.....				1													
Maceio.....				1													
Ceara State.....	1	1															1
Minas Gerais State.....	2																
Rio de Janeiro State.....	2																
Sergipe State.....																	
British Cameroons: Mamfe.....	3	1															
2	2																
Colombia: Magdalena Province—Near Cienaga.....			4														
Gold Coast:																	
Akuse.....			2														
Dagomba District.....			1														
Kete Krachi.....				4													
Kintampo.....			1							1							
Oda.....			1														
1										1							
Tamale.....			2							1							
2			2							2							
Wale Wale.....				1													
Ivory Coast:				1													
Bobo Dioulasso.....			1														
Grand Bassam.....																	
1																	
Kong Circle.....			4														
2																	
Seguela.....																	
Tebini.....			4														
P																	1

